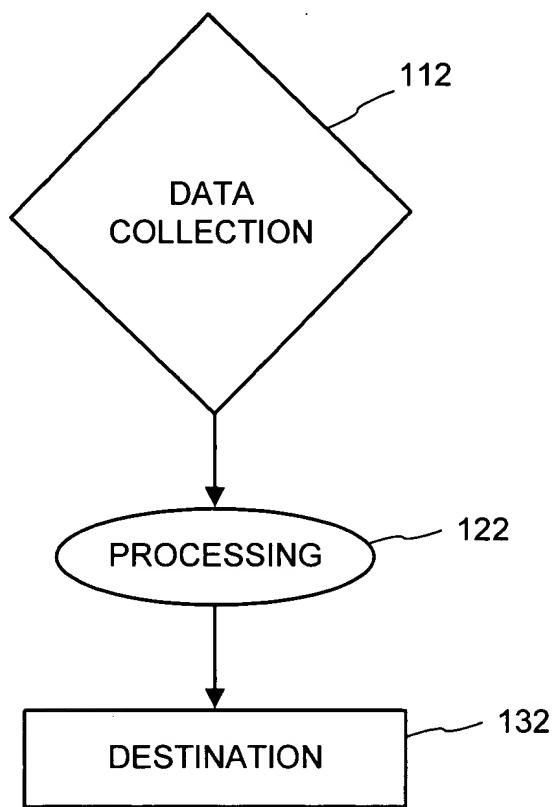


FIG. 1

102



00000000000000000000000000000000

FIG. 2

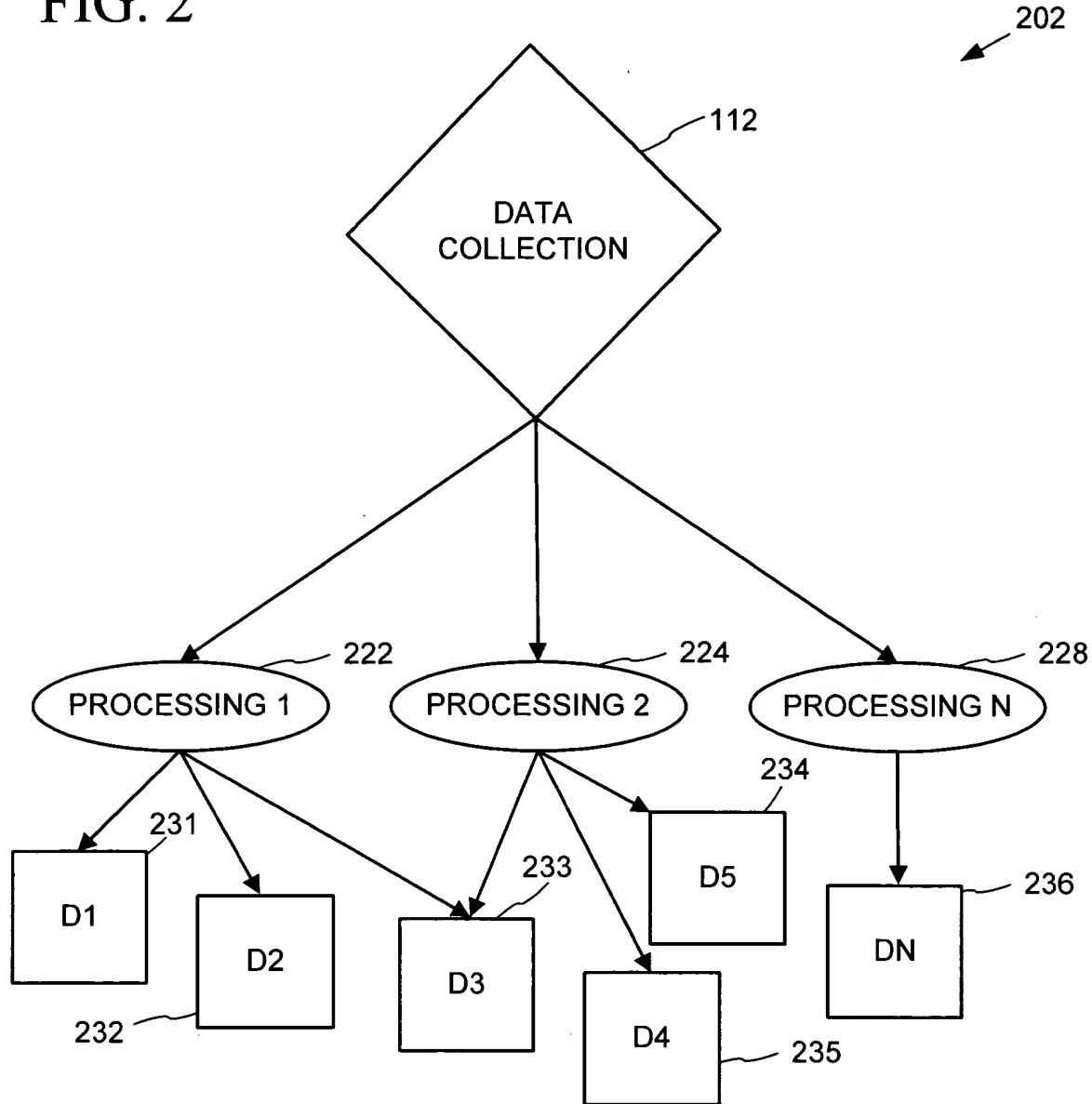


FIG. 3

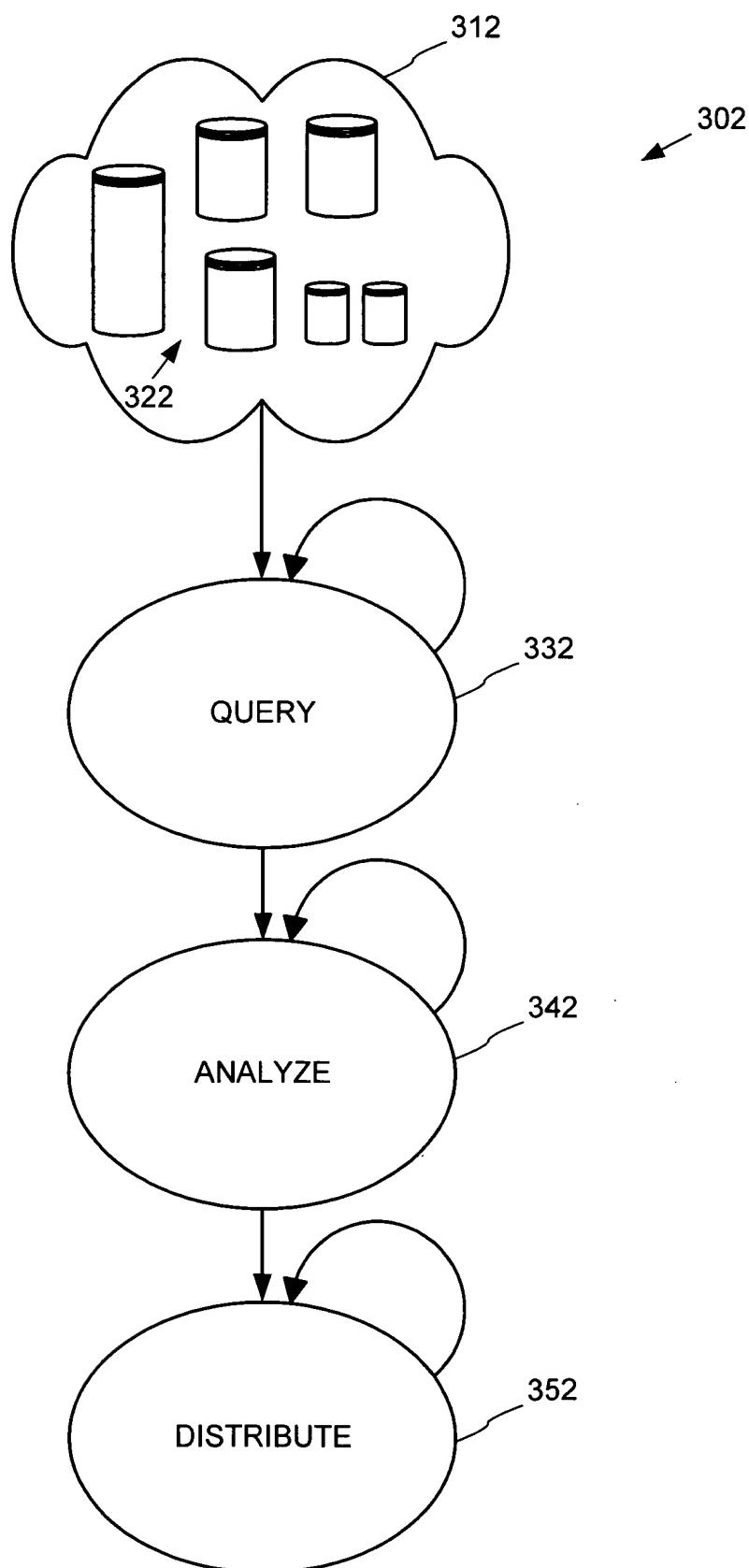


FIG. 4

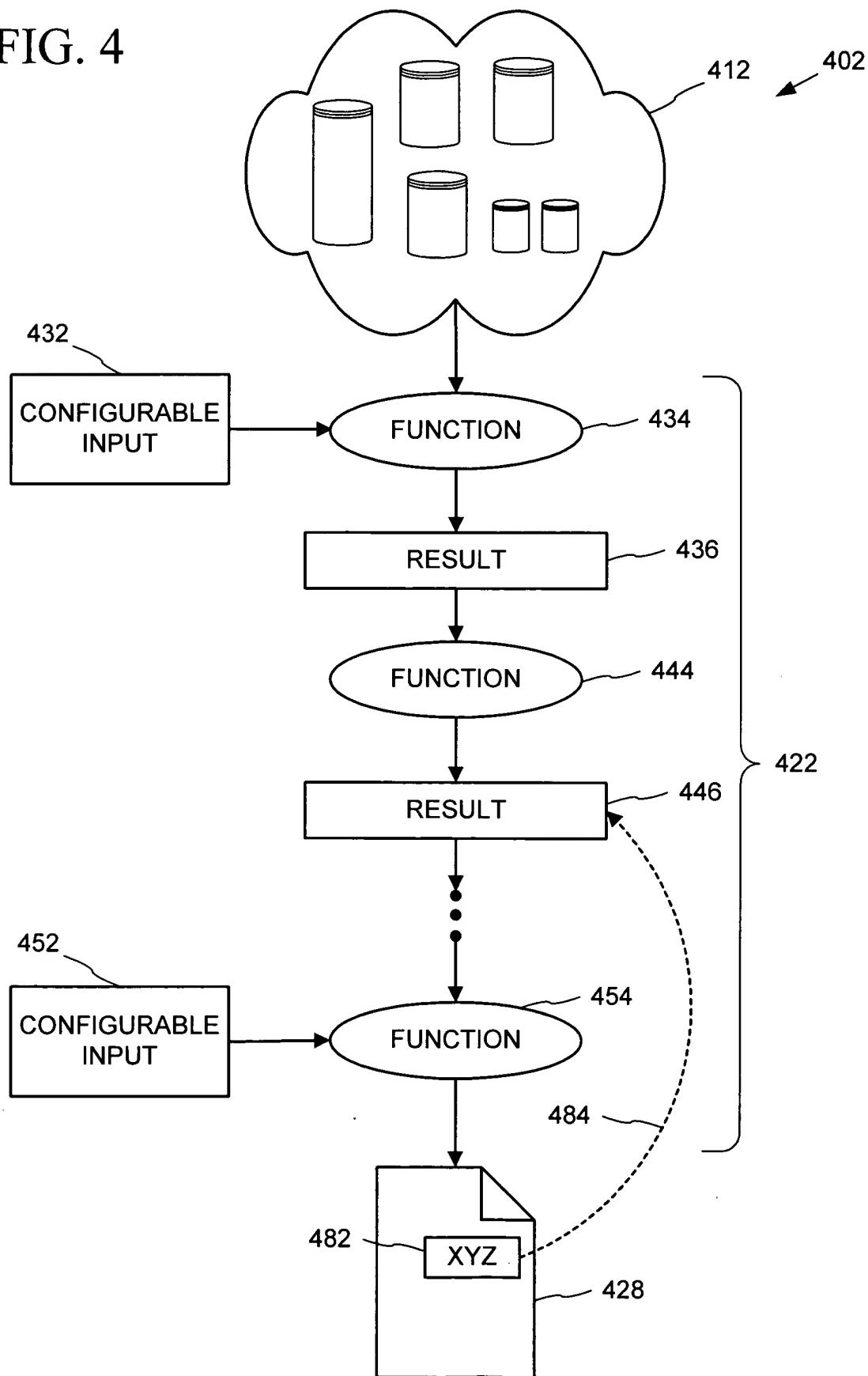


FIG. 5

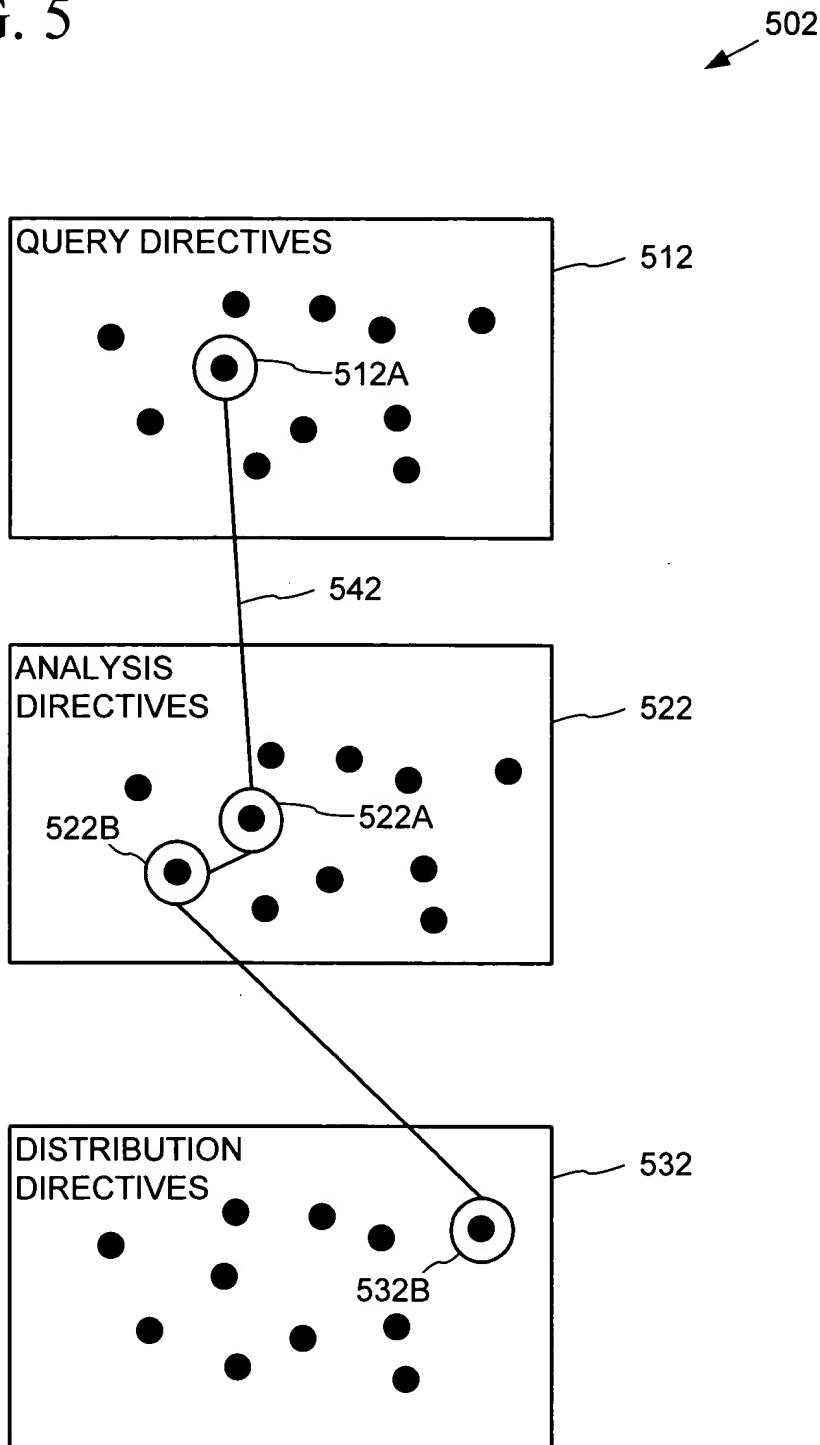


FIG. 6

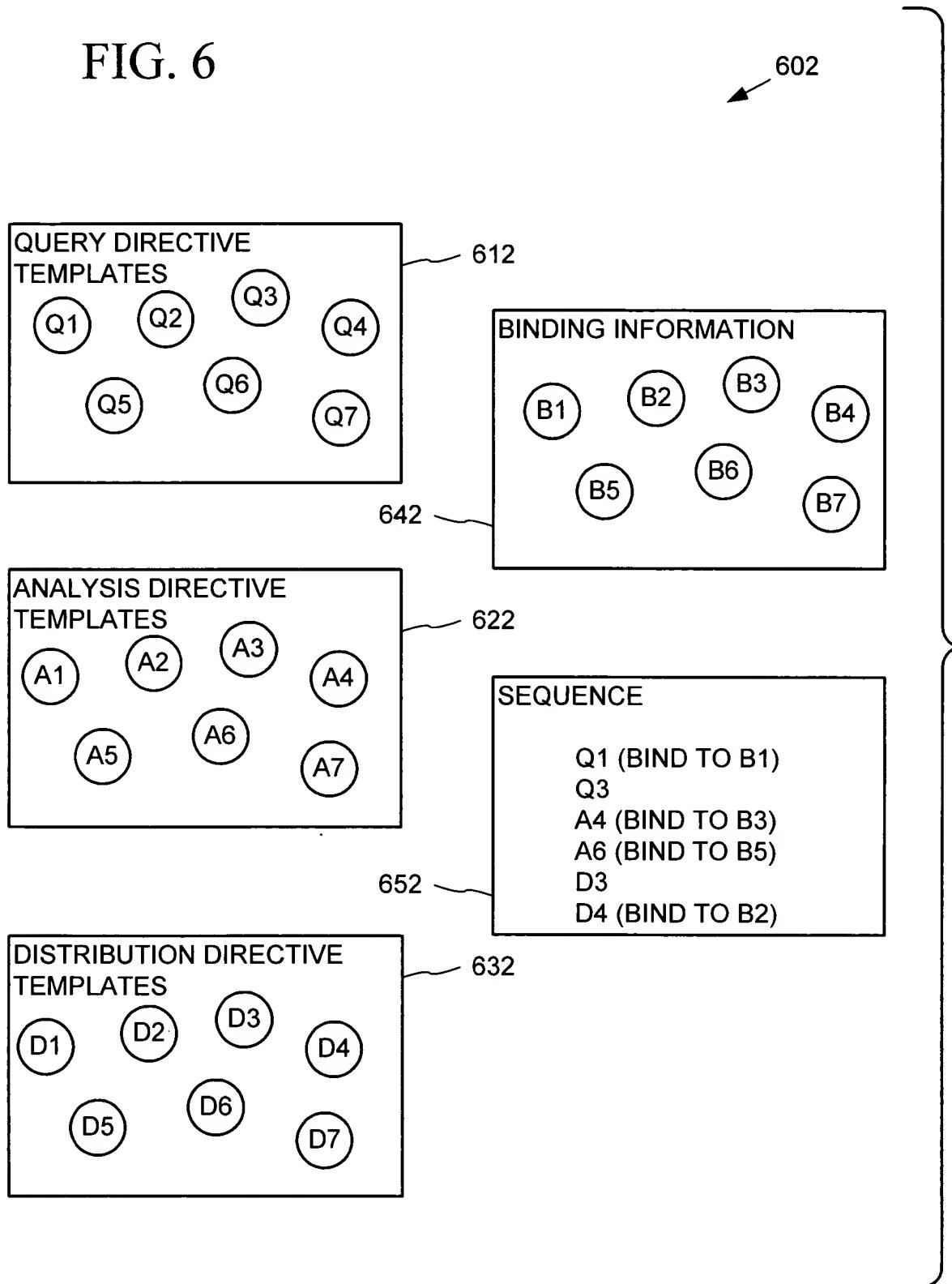


FIG. 7

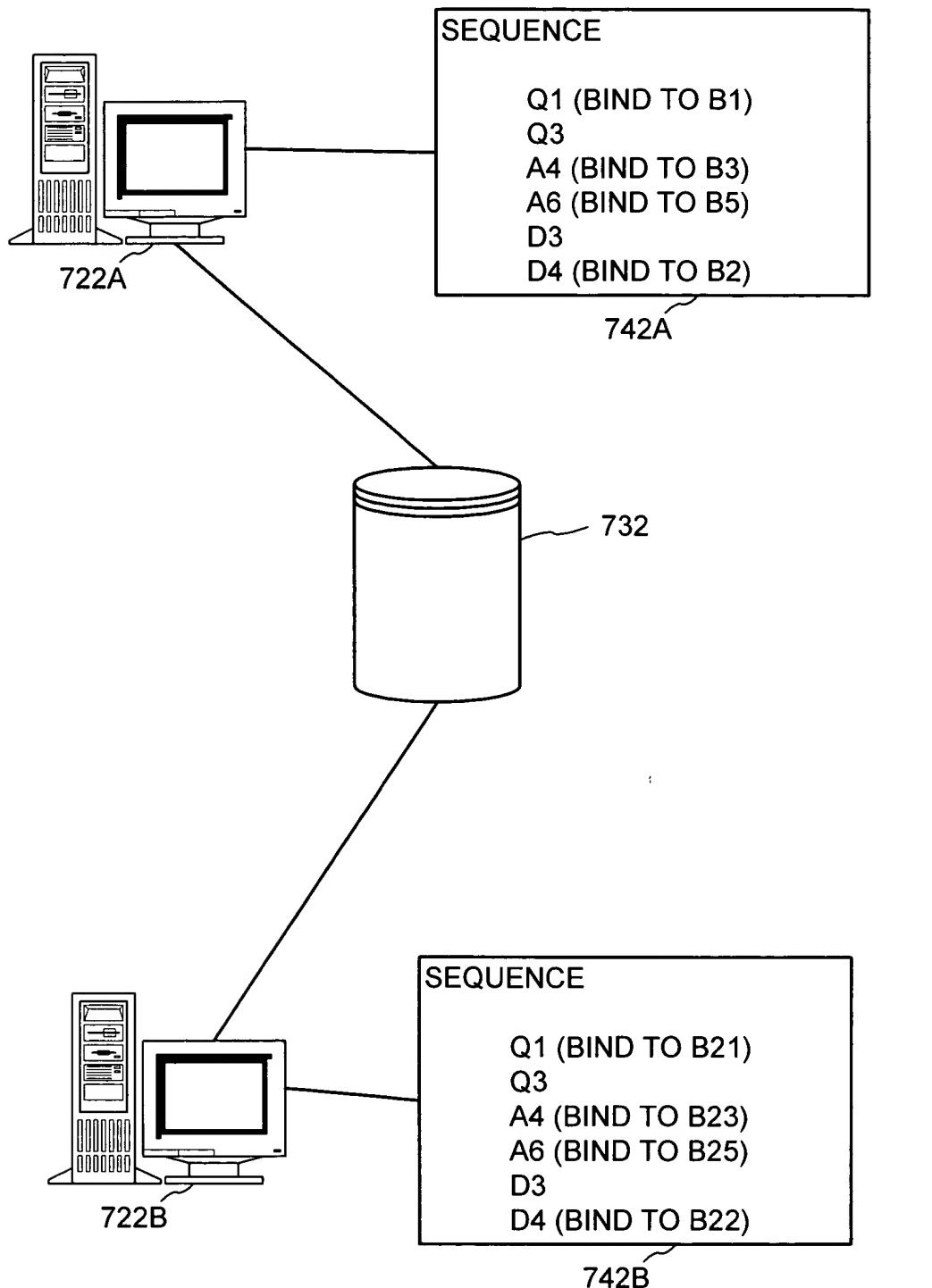


FIG. 8

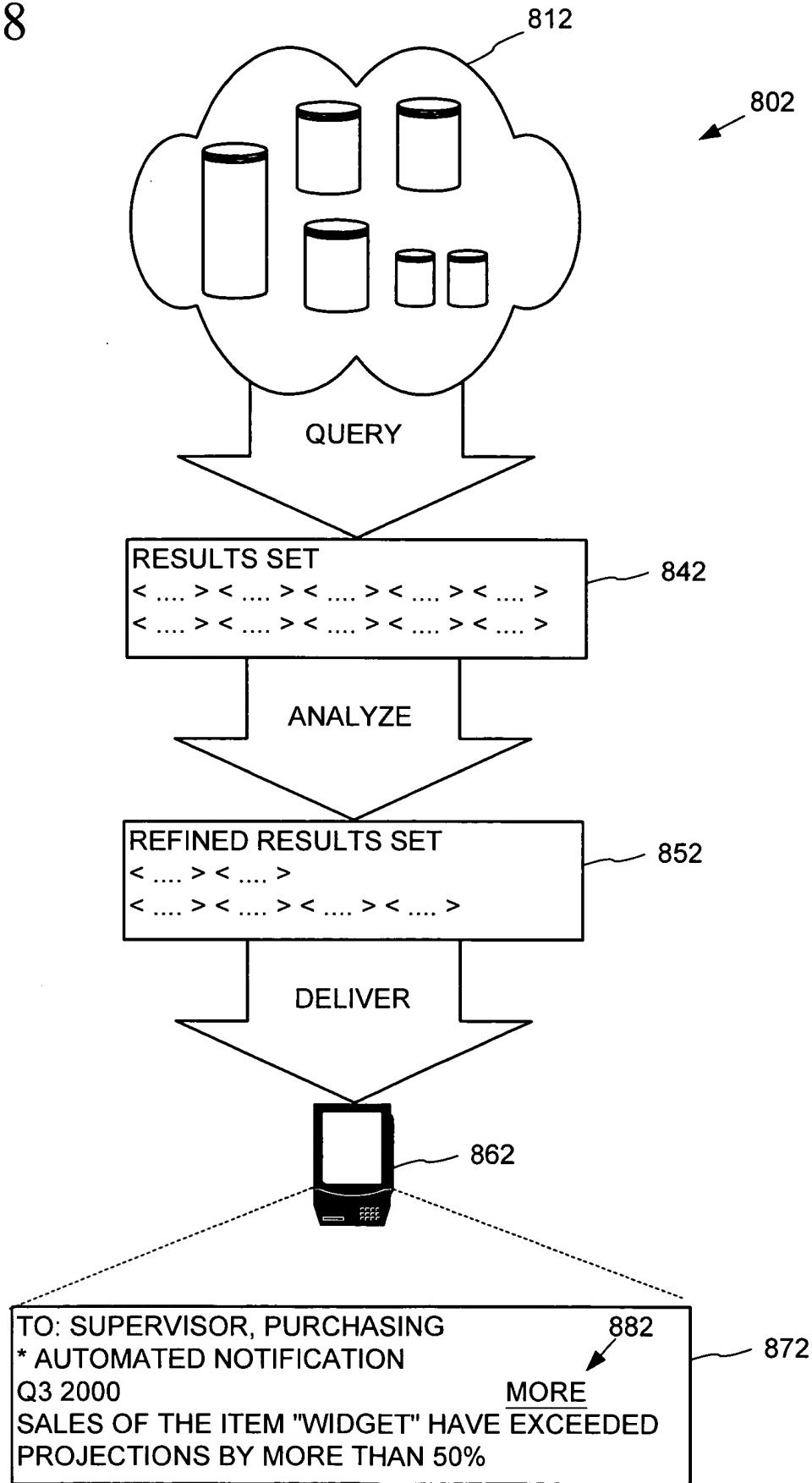
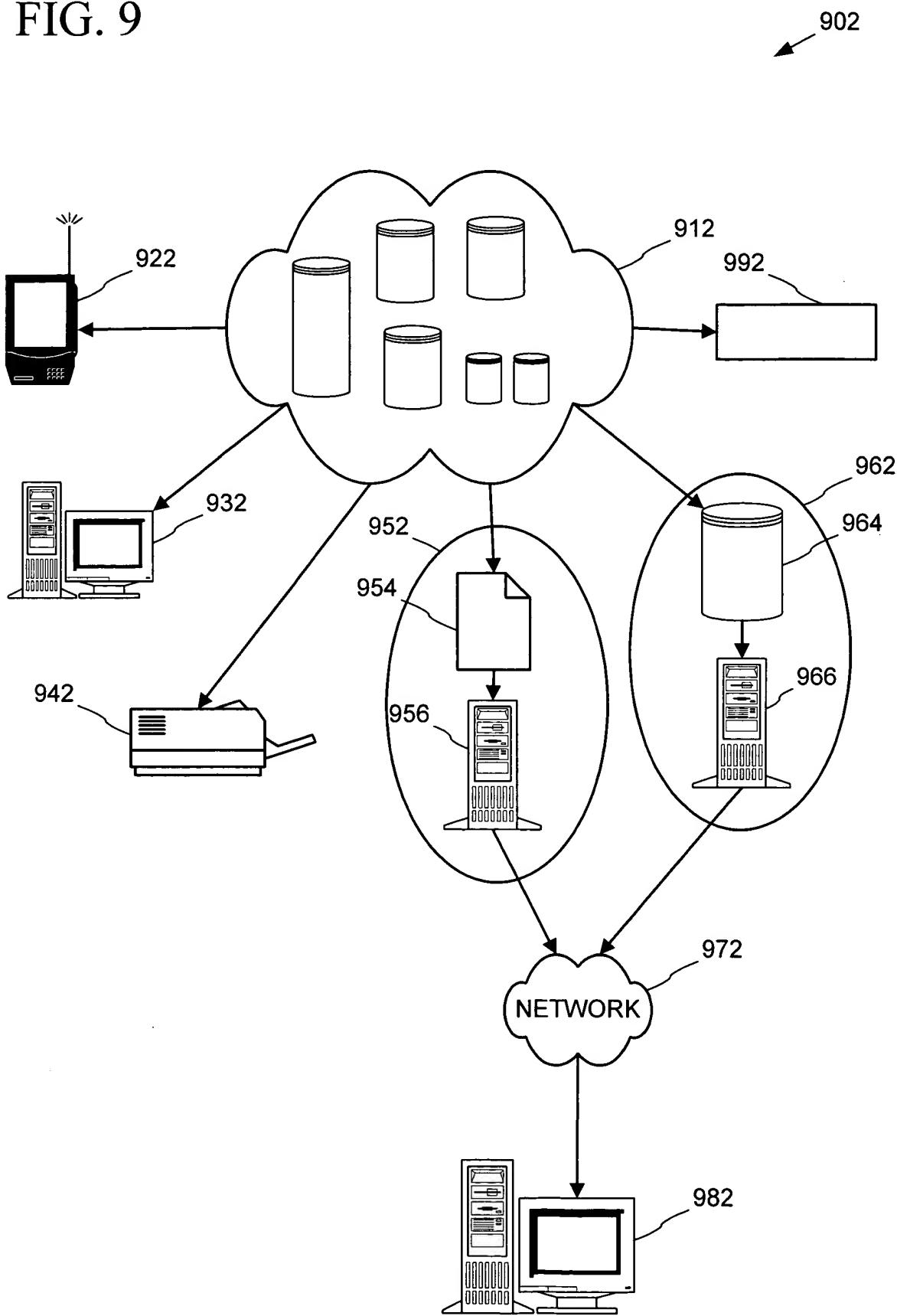


FIG. 9



092540266002

FIG. 10

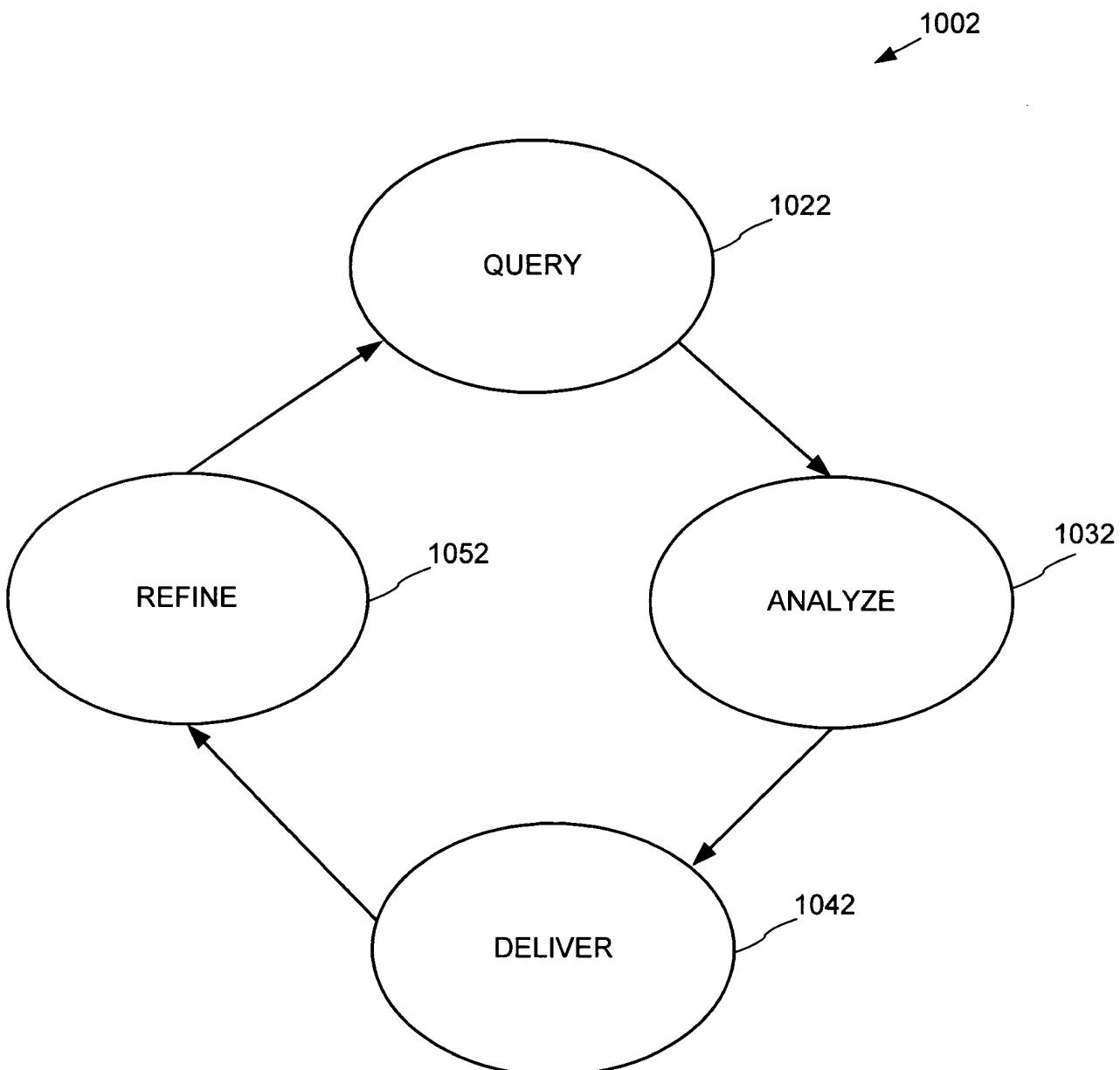
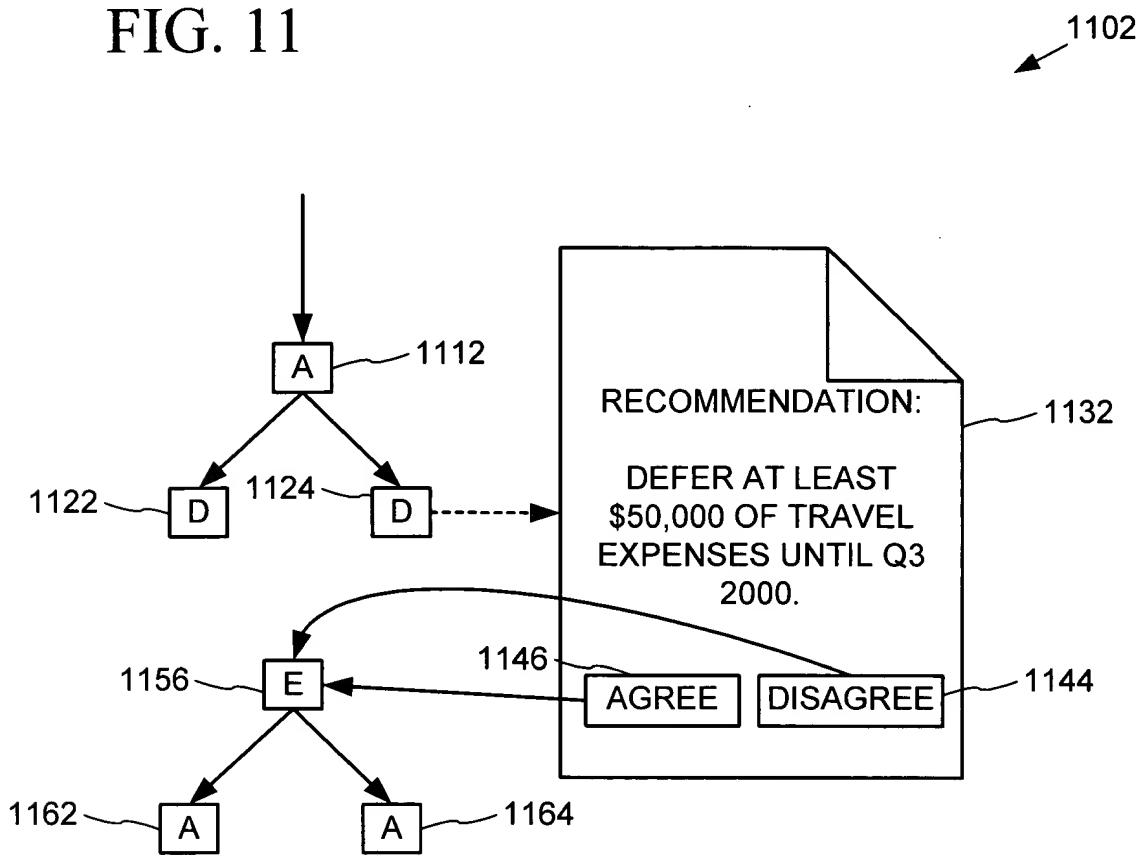


FIG. 11

092503-000001



1102

1132

1144

1146

1156

1162

1164

1122

1124

1122

1112

FIG. 12A

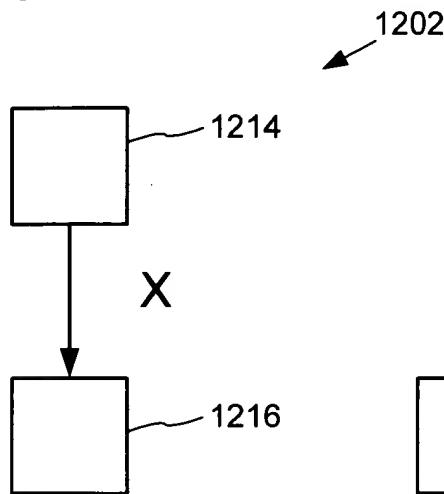
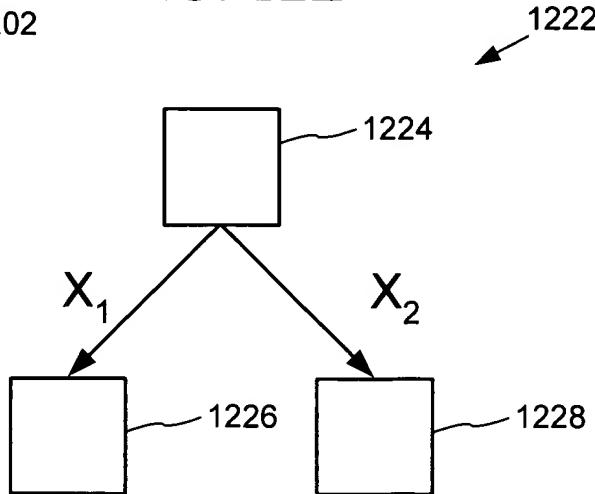


FIG. 12B



2015008080 "2015008080"

FIG. 12C

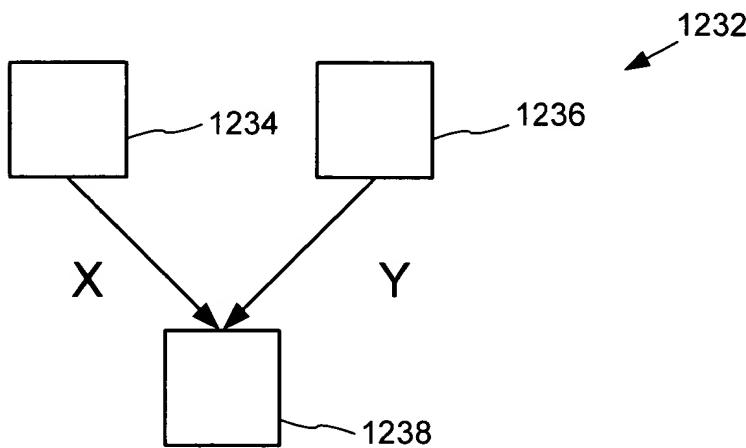


FIG. 12D

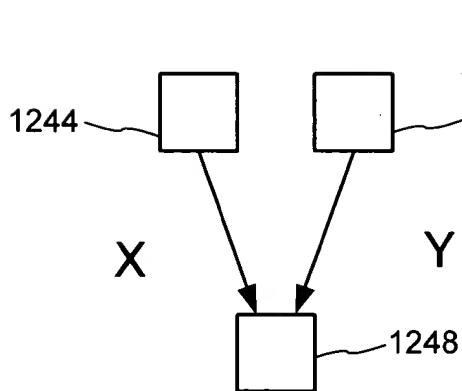


FIG. 12E

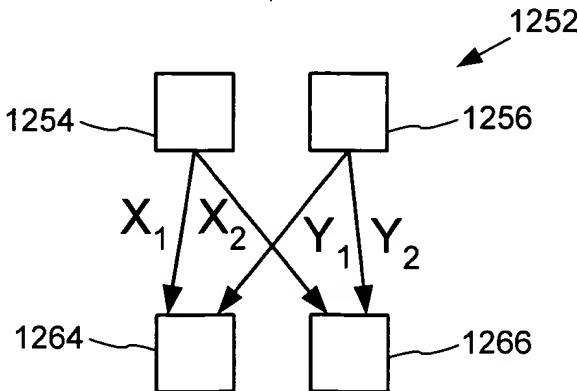


FIG. 13

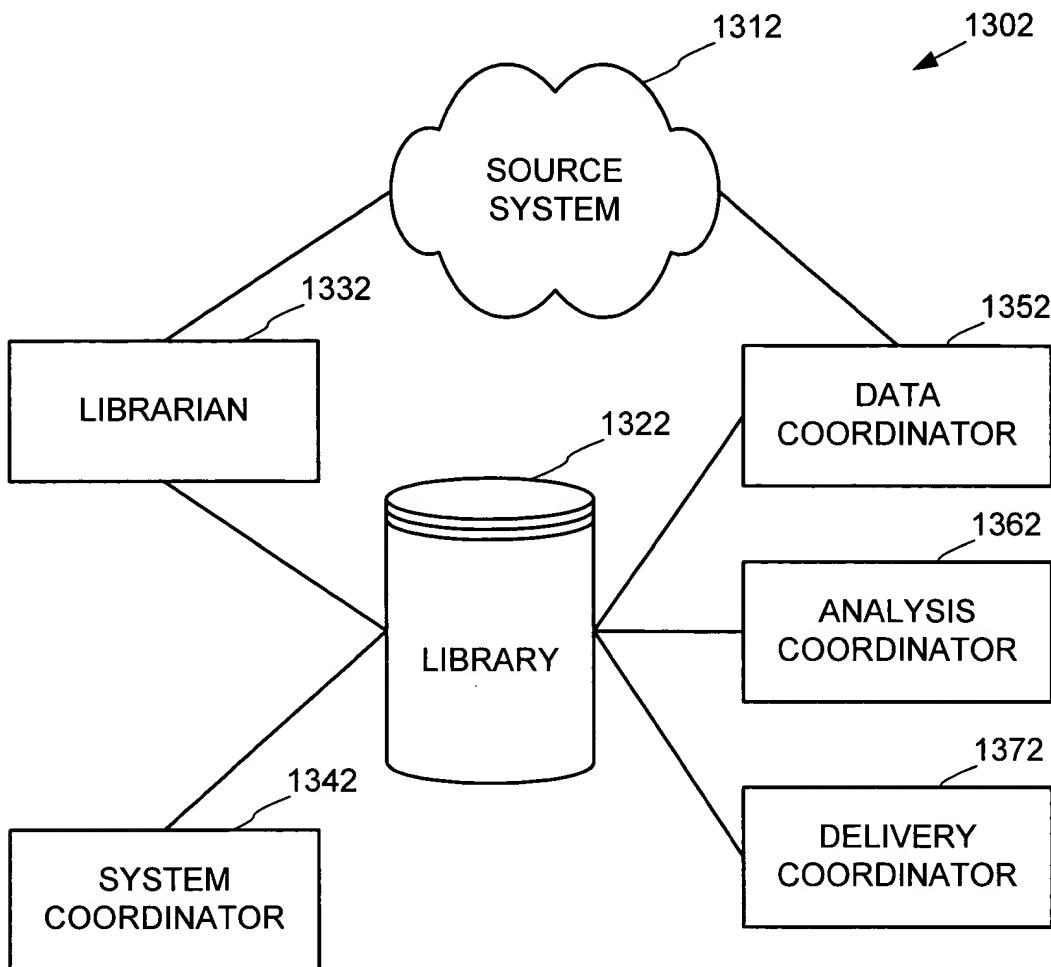


FIG. 14A

URGENT - PENDING - PRIORITY

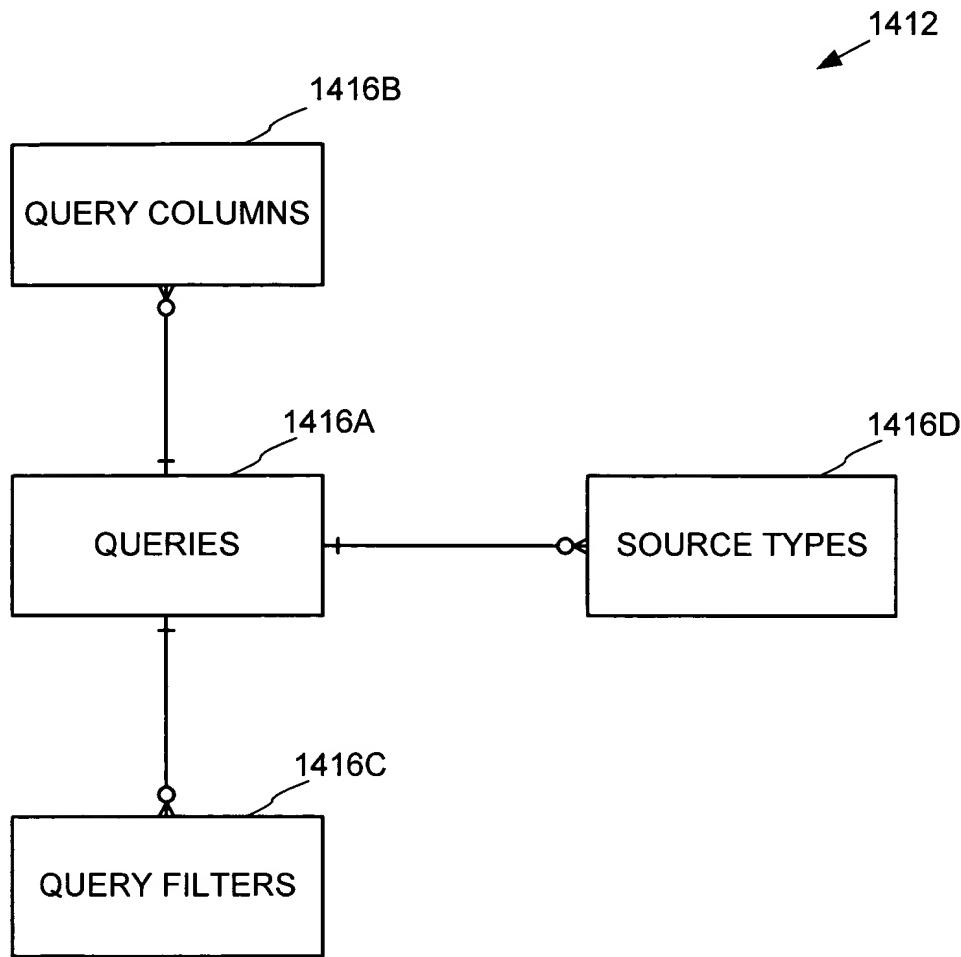


FIG. 14B

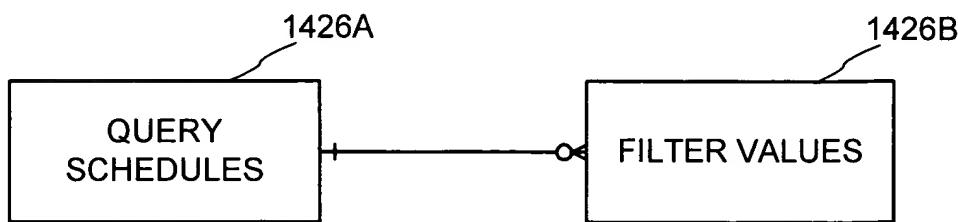


FIG. 14C

RECORDED - 5010 PAPER

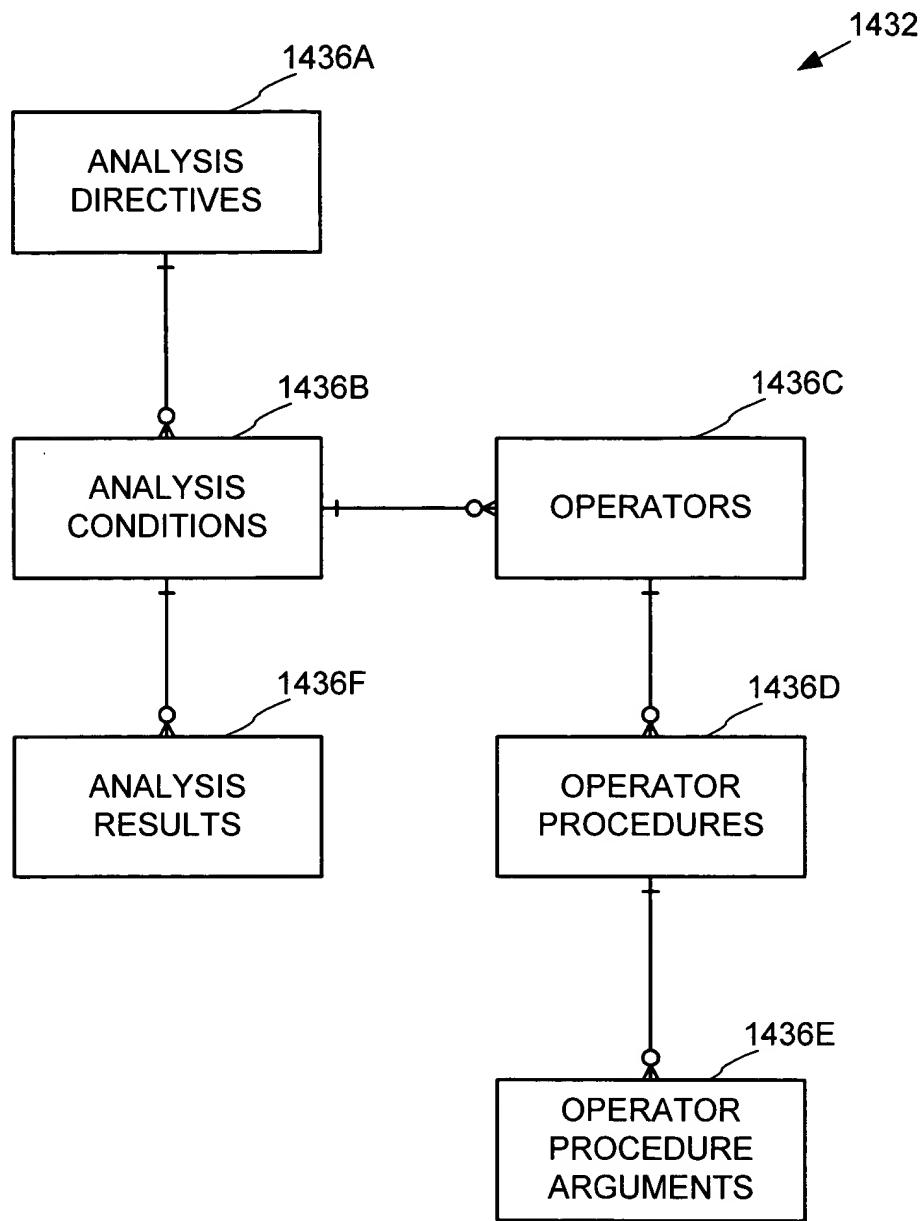
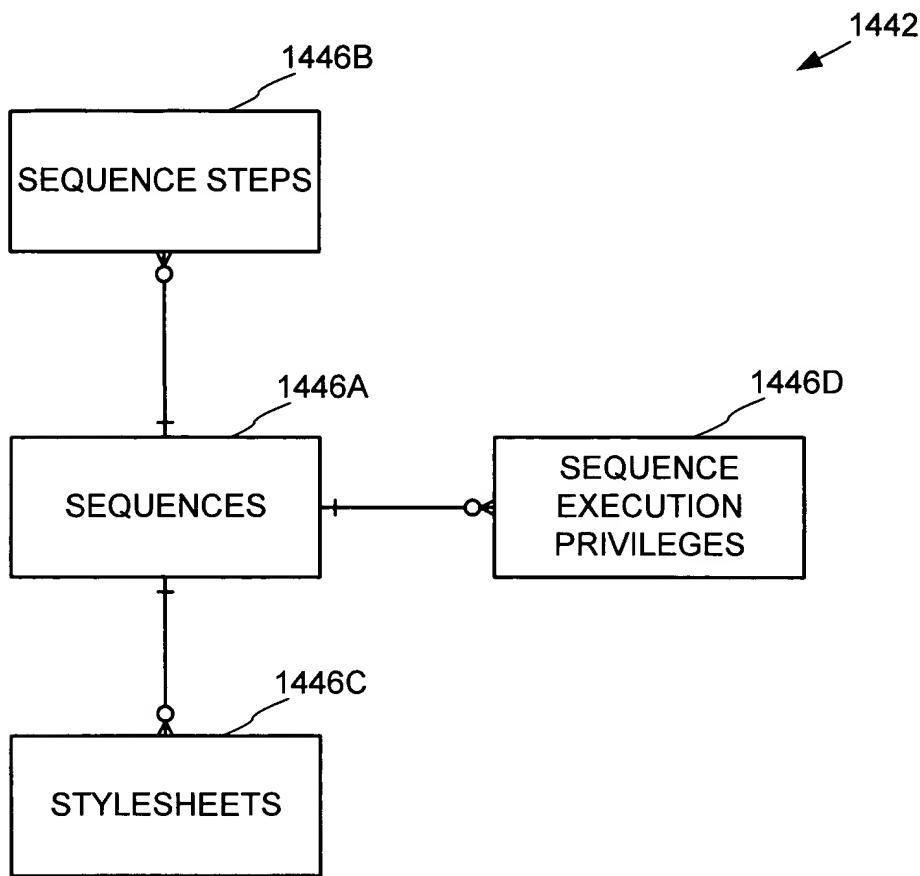


FIG. 14D



P0050380 "S007353650

FIG. 14E

06032017 09:20:00 AM - 10/20/2017

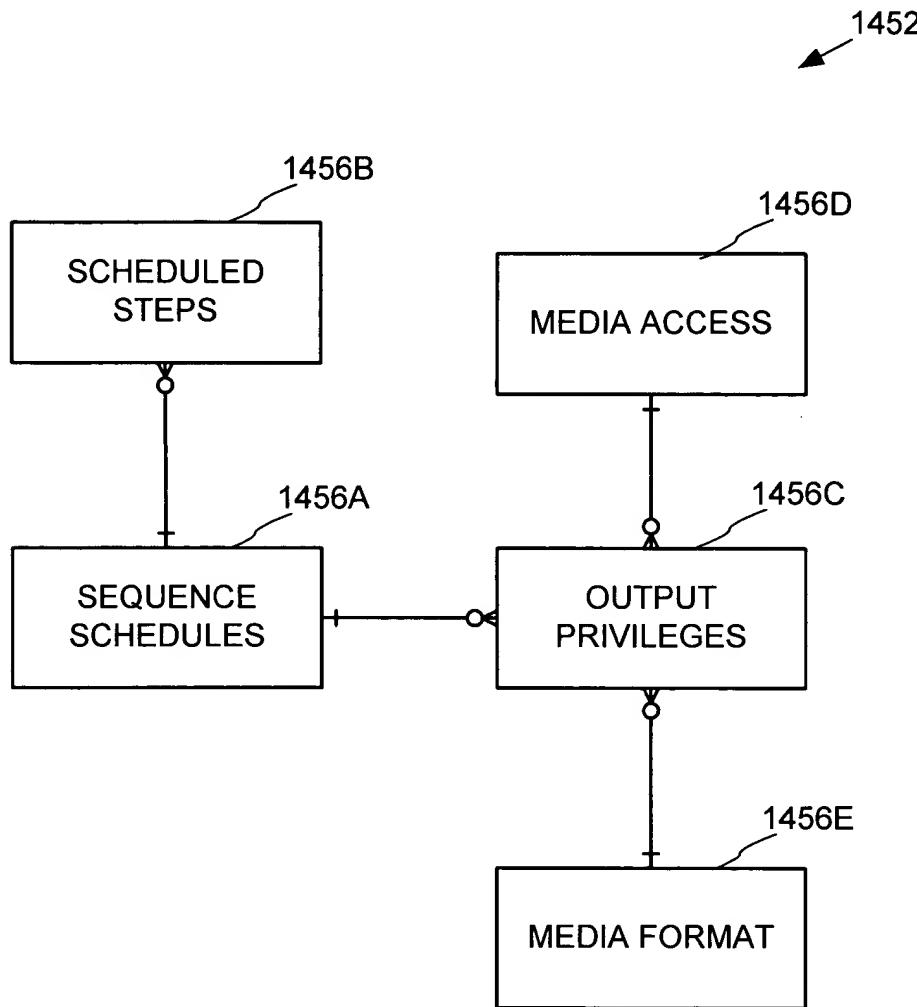


FIG. 14F

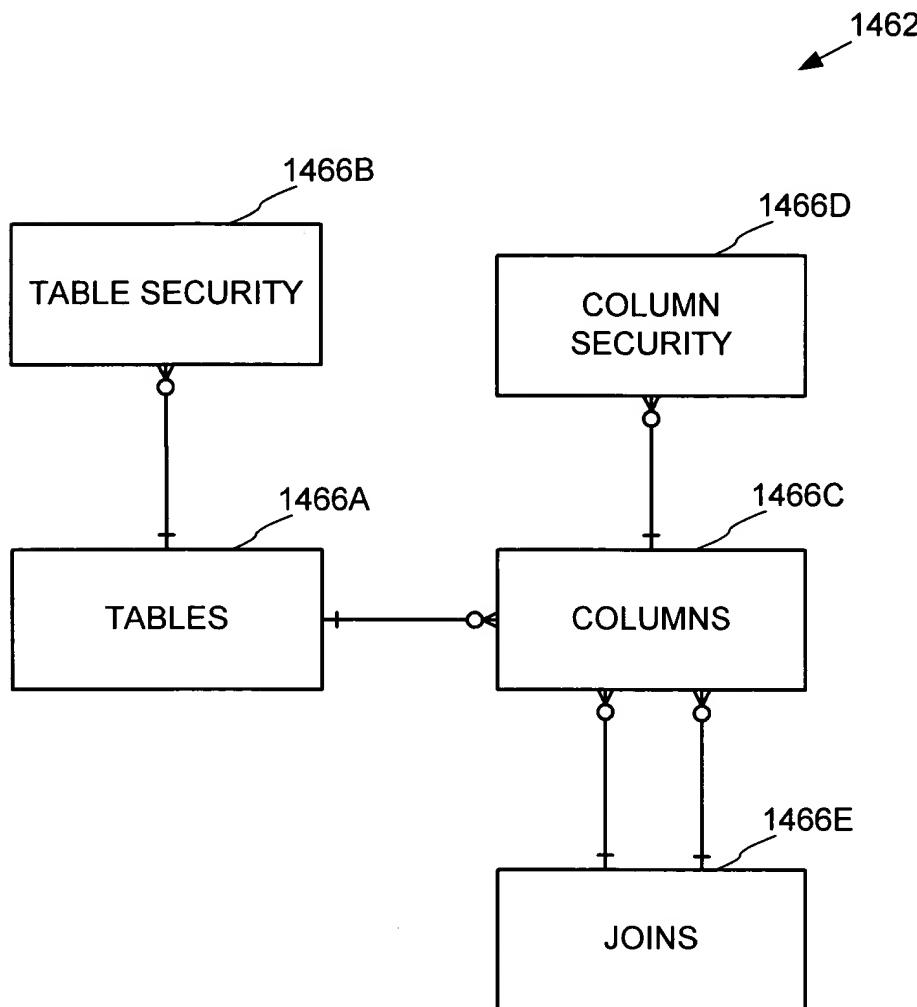


FIG. 14G

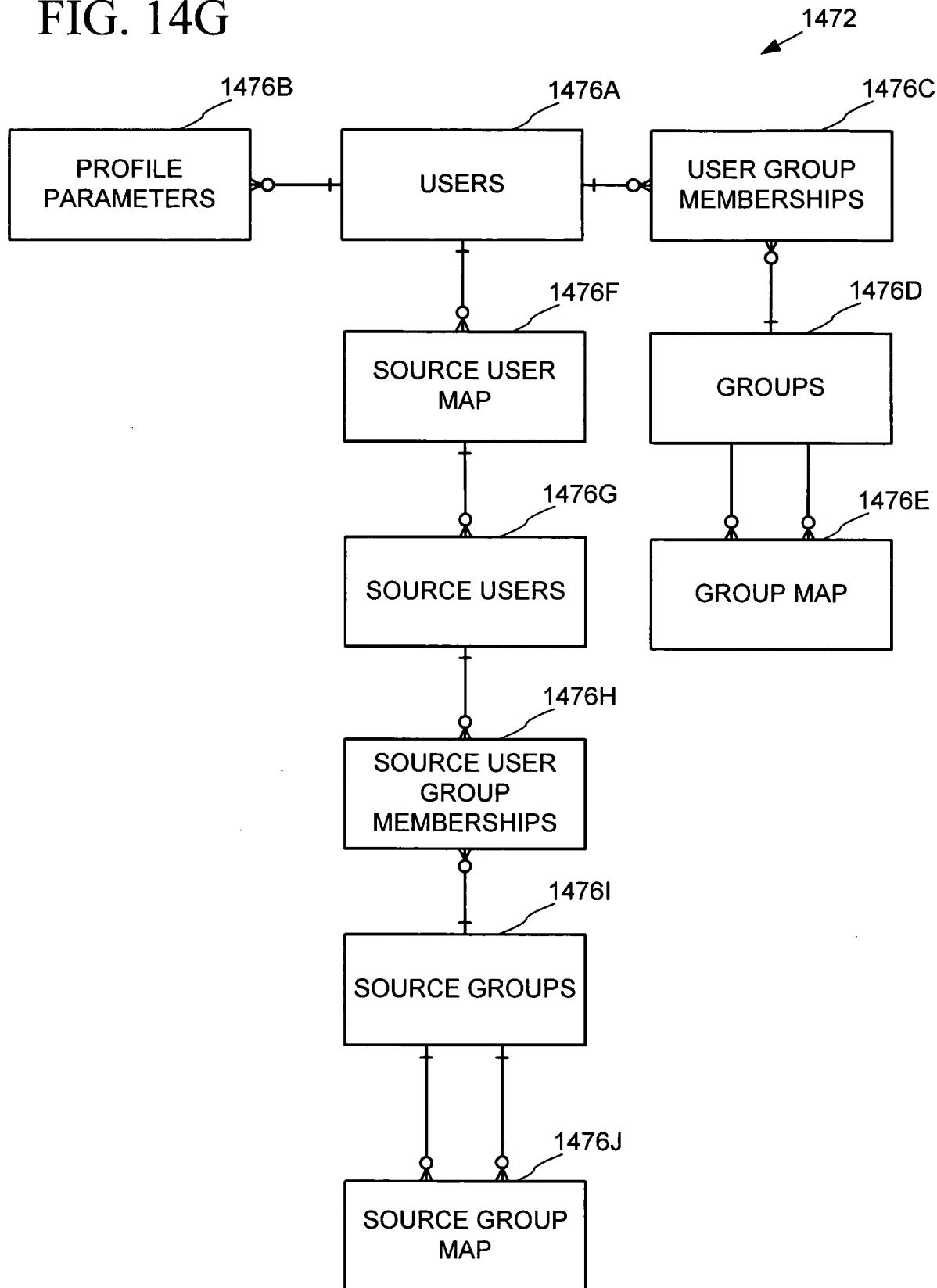


FIG. 14H

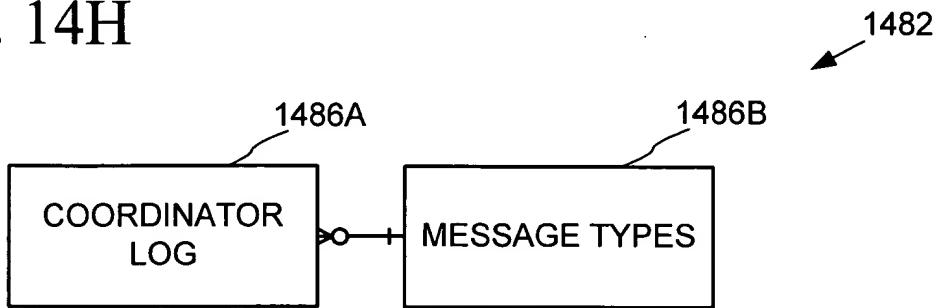


FIG. 15A

1502
→

QUERY DIRECTIVES						OPTION
NAME	DESC	SOURCE	USER	STATUS		
NEW	NEW	SYSTEM A ▼	NB	AVAILABLE ▼	<input type="button" value="ADD"/>	
CC1	COST CENTER	SYSTEM A	EH	AVAILABLE ▼	<input type="button" value="MOD"/>	
AR-PTD	PERIOD TO DATE	SYSTEM B	LS	AVAILABLE ▼	<input type="button" value="MOD"/>	
REV	PTD REVENUE	SYSTEM B	LS	AVAILABLE ▼	<input type="button" value="MOD"/>	
FIN	FINANCIALS	SYSTEM B	LS	AVAILABLE ▼	<input type="button" value="MOD"/>	
SALES	SALES BY DEPT	SYSTEM B	LS	AVAILABLE ▼	<input type="button" value="MOD"/>	

FIG. 15B

1504
→

QUERY TABLE & COLUMNS						
TABLE	COLUMN	GB?	ST	XML TAG	ROR?	SORT
SELECT COLUMN						
ACCOUNTING_DATE_D	▼					
AR_RCT_REV_RESN_D	▲					
AR_RECVT_STATUS_D	◀					
AR_REVENUE_F	◀					
AR_SCH_PMT_DTL_F	◀					
AR_SHIP_VIA_D	◀					
AR_SOLD_TO_CUST_D	◀					
ASSET_BOOK_D	▶					
ASSET_EMPLOYEE_D	▶					
ASSET_INVENTORY_F	▶					
ASSET_TYPE_D	▶					
AUTHORIZER_D	▶					

FIG. 15C

1506
→

QUERY:NEW QUERY						
TABLE	COLUMN	GB?	ST	XML TAG	ROR?	SORT
DEPARTMENT_D	DEPARTMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/> ▼	<input type="checkbox"/>	<input type="checkbox"/> N	<input type="checkbox"/> ▼
	DEPARTMENT	<input type="checkbox"/> ▼	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	DEPARTMENT_DESC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	DEPARTMENT_KEY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FIG. 15D

1508
→

QUERY:NEW QUERY						
TABLE	COLUMN	GB?	ST	XML TAG	ROR?	SORT
DEPARTMENT_D	DEPARTMENT_DESC	Y		DEPARTMENT	N	1

QUERY TABLE & COLUMNS

ADD COLUMN

DONE

FIG. 15E

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 25 of 103

QUERY TABLE & COLUMNS						
TABLE	COLUMN	GB?	ST	XML TAG	ROR?	SORT
DEPARTMENT_D	DEPARTMENT_DESC	Y		DEPARTMENT	N	1
INC_STMT_LINES_D	LINE_NAME	Y		LINE_NAME	N	
INCOME_STMT_A	PTD_ACTUAL	N	SUM	PTD_ACTUAL	N	
INCOME_STMT_A	PTD_BUDGET	N	SUM	PTD_BUDGET	N	
INCOME_STMT_A	PTD_VARIANCE	N	SUM	PTD_VARIANCE	N	

FIG. 15F

1512

QUERY:NEW QUERY					
TABLE	COLUMN	FILTER OPERATOR	ROR?	REF TABLE	REF COLUMN
BUDGET_D	BUDGET	IN	NO		REF TABLE
<input type="button" value="ADD"/> = < > <= >= IN					

FIG. 15G

Grégoiry L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmonon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, inventors: Scherurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 27 of 103

QUERY:NEW QUERY					
TABLE	COLUMN	FILTER OPERATOR	ROR?	REF TABLE	REF COLUMN
BUDGET_D	BUDGET	IN	N		
PERIOD_D	PERIOD	=	N		
DEPARTMENT_D	DEPARTMENT	=	N	DEPARTMENT_D	DEPARTMENT_KEY

ADD FILTER **FINISH**

FIG. 15H

1516
→

ANALYSIS SUBSEQUENCE YOU ARE TYING THIS ANALYSIS SUBSEQUENCE TO THE QUERY DIRECTIVE: NEW QUERY				
ANALYSIS SUBS NAME	USER NAME	RESULTS TYPE	LAST RUN DATE	OPTIONS
INCOME STMT ANALYSIS	NB	SHOW		<input type="button" value="ADD"/>

FIG. 151

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, inventors: Scherurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 29 of 103

FIG. 15J

1520

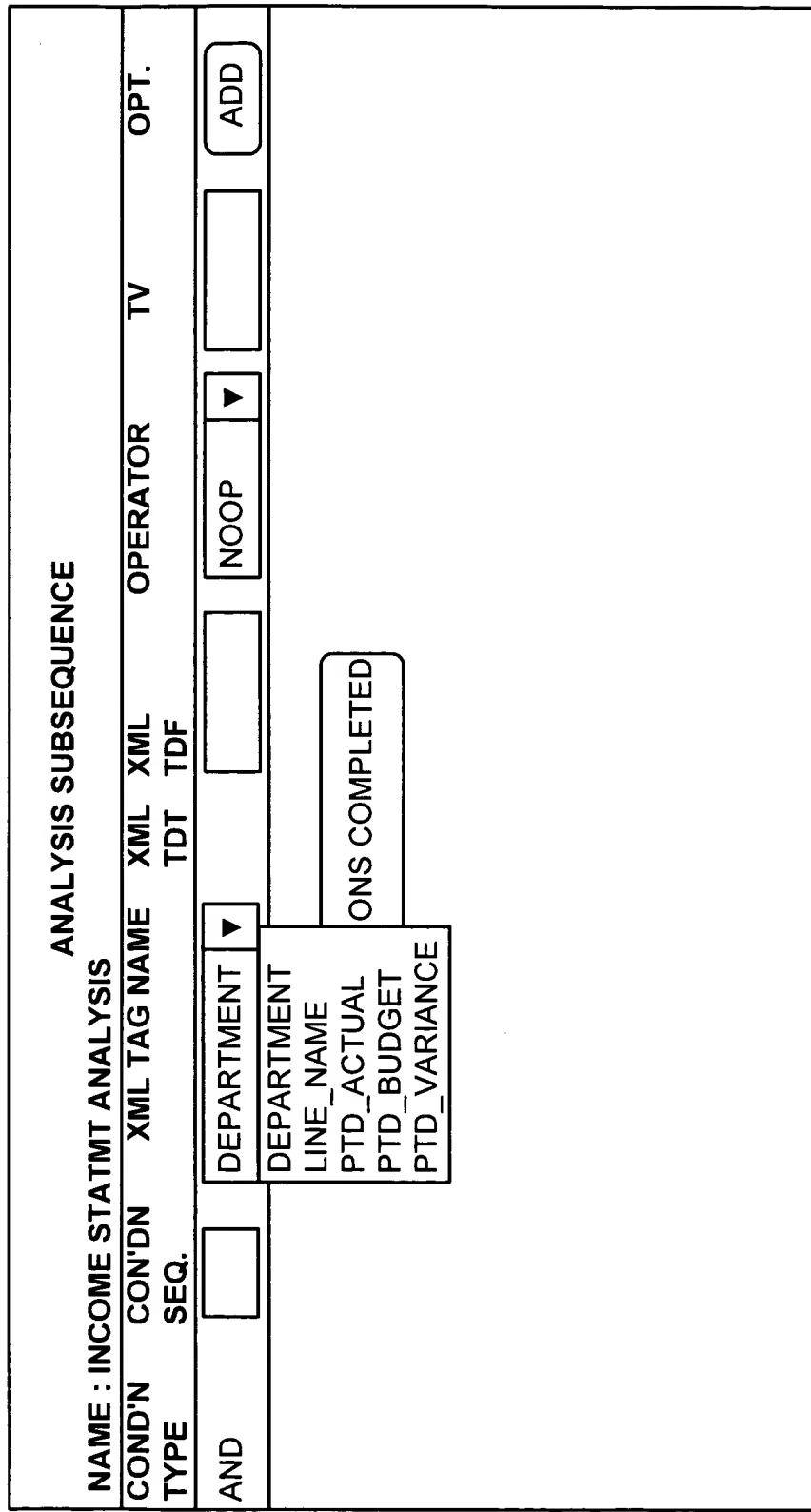


FIG. 15K

1522

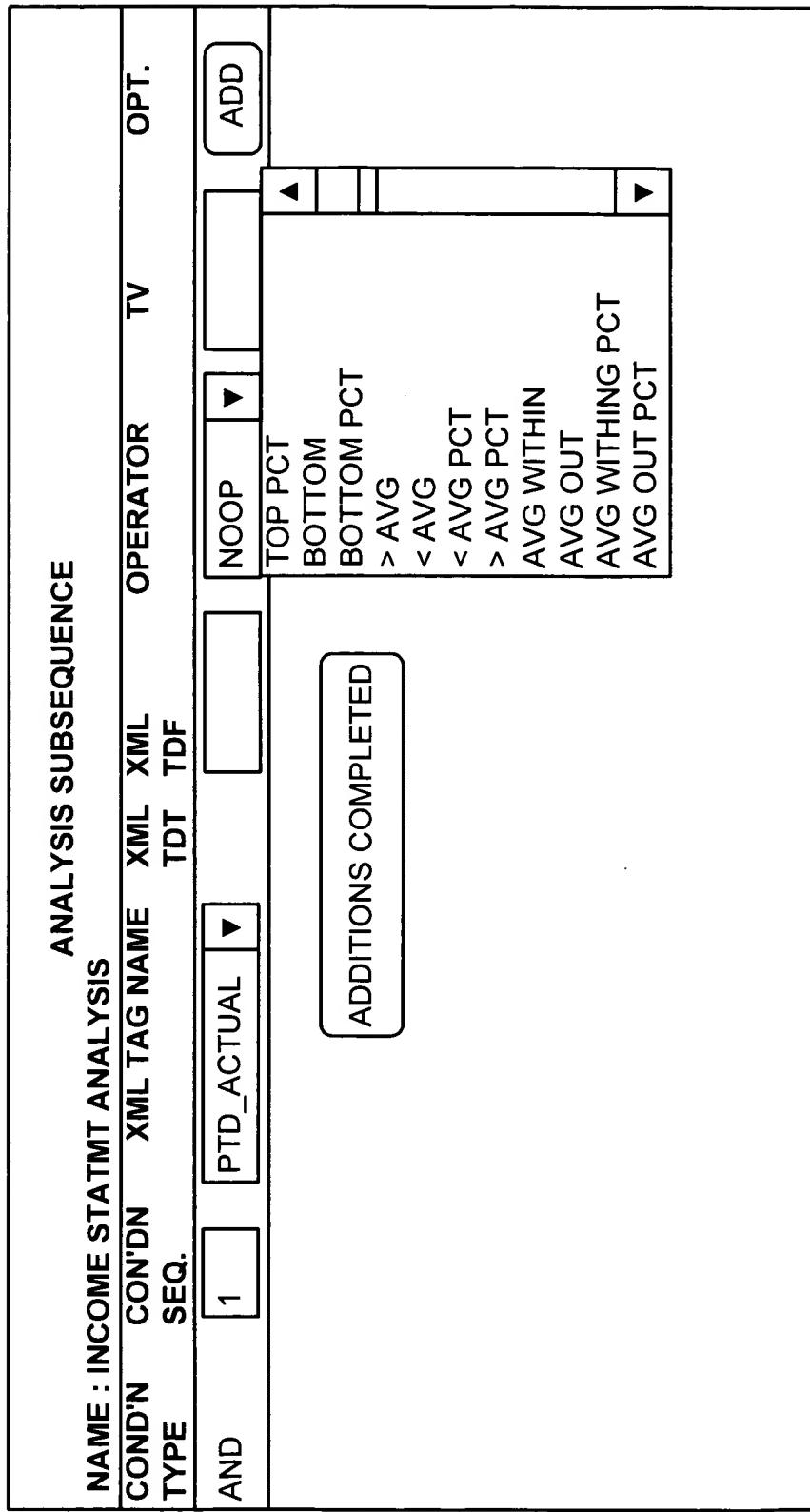


FIG. 15L

1524

ANALYSIS SUBSEQUENCE							
NAME : INCOME STATEMENT ANALYSIS		COND'N	CON'DN	XML TAG NAME	XML TDF	OPERATOR TV	OPT
	SEQ			TDT	TDF		
AND			DEPARTMENT	►		NOOP ▶	ADD
AND	1		PTD_ACTUAL	►		↔ ▶ 0	MOD DEL
AND	2		PTD_VARIANCE	►		> ▶ 300000	MOD DEL
AND	3		PTD_VARIANCE	►		TOP PCT ▶ 10	MOD DEL
							ADDITIONS COMPLETED

FIG. 15M

1526
→

ADD, EDIT OR DELETE SEQUENCES		SEQUENCES		
ID	NAME	DESCRIPTION	STATUS	USER OPT
	INCOME STAT'T ANALYSIS	INCOME STAT'T ANALYSIS	AVAIL ▼	NB ADD
24	FINANCIAL STATEMENT	FINANCIAL STATEMENT	AVAIL ▼	LS MOD
25	FSV		AVAIL ▼	NB MOD
26	COST CENTER SCORING 1	COST CENTER SCORING	DISAB ▼	LS MOD
27	COST CENTER SCORING 2	CSS PTD-VARIANCE	AVAIL ▼	LS MOD

FIG. 15N

1530
↙

ADD OR EDIT SEQUENCE STEP INFORMATION					
SEQUENCE NAME: INCOME STATEMENT ANALYSIS					
ID	STEP DIRECTIVE TYPE	DIRECTIVE ID	LUB	LUD	
28	1	QUERY DIRECTIVE	QUERY FOR STEP ▼	ADD	DEFINE
<p>AR - PTD REVENUE BY DEPARTMENT VARIANCE AND VARIANCE PERCENT NEW QUERY NEIL'S QUERY NEIL'S OTHER QUERY LARRY'S QUERY YET ANOTHER LARRY QUERY</p>					

FIG. 150

1532

ADD OR EDIT SEQUENCE STEP INFORMATION					
SEQUENCE NAME: INCOME STATEMENT ANALYSIS		DIRECTIVE ID	LUB	LUD	
ID	STEP DIRECTIVE TYPE				
28	1	QUERY DIRECTIVE	NEW QUERY ▾	12/15/00	MOD
28	2	ANALYSIS DIRECTIVE ▾	DIRECTIVE		DEFINE
		QUERY DIRECTIVE			
		ANALYSIS DIRECTIVE			
		EVENT DIRECTIVE			
		DISTRIBUTION DIRECTIVE			

FIG. 15P

1534
→

ADD OR EDIT SEQUENCE STEP INFORMATION					
SEQUENCE NAME: INCOME STATEMENT ANALYSIS					
ID	ST	DIRECTIVE TYPE	DIRECTIVE ID	LUB	LUD
28	1	QUERY DIR	NEW QUERY	▼	12/15/00 MOD
28	2	ANALYSIS DIR	INCOME STMT ANALYSIS	▼ NB	12/15/00 MOD
28	3	DISTRIBUTION DIRECTIVE	▼	DIRECTIVE	DEFINITION

FIG. 15Q

1536

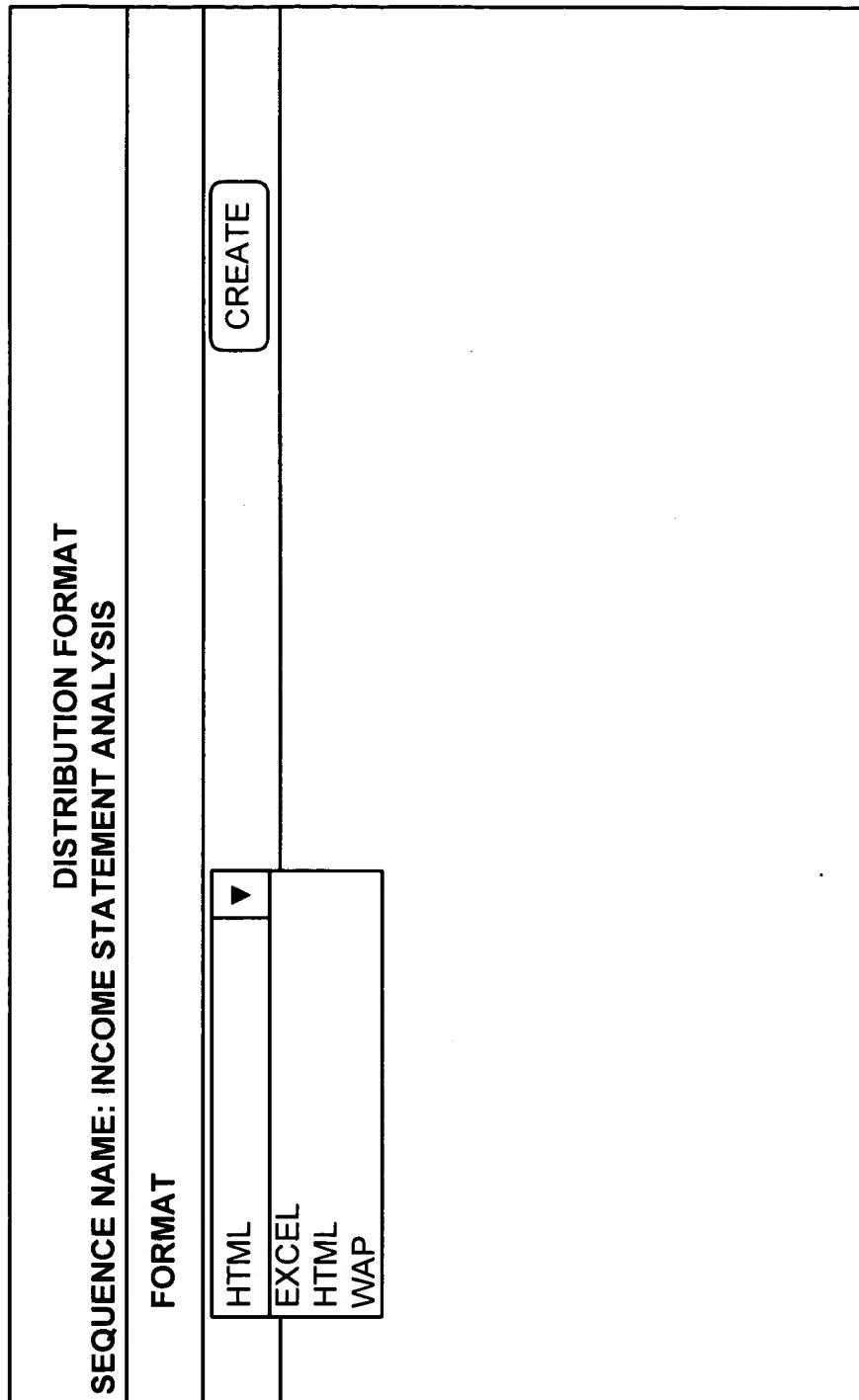


FIG. 15R

1538

HOME INSTRUCTIONS		SCHEDULE SEQUENCES				
SEQUENCES AVAILABLE		SEQUENCE NAME	USER	SCHEDULE DESC	FREQ	PRIORITY
<u>ADMIN</u>	<u>SYS SETTINGS</u>	INCOME STATT ANALYSIS ▶	LS	[ISA FOR DEC '00]	IMMEDIATE ▶	<input type="button" value="ADD"/>
<u>USERS</u>		SELECT SEQUENCE TO VIEW				
<u>LOGS</u>						
<u>APPL SETTINGS</u>		COST CENTER SCORING - PTD VARIANCE ▶				<input type="button" value="VIEW"/>
<u>MEDIA SETT'S</u>						

FIG. 15S

1540

SCHEDULE SEQUENCES					
SEQUENCE NAME	USER	SCHEDULE DESC	FREQ	PRIORITY	
INCOME STAT'T ANALYSIS	LS	ISA FOR DEC '00	IMMEDIATE ▶	ADD	
SELECT SEQUENCE TO VIEW			IMMEDIATE		
COST CENTER SCORING - PTD VARIANCE			ONCE		
			EXTRACT		
			DAILY		
			WEEKLY		
			MONTHLY		

FIG. 15T

1542
→

ADD SEQUENCE TO SCHEDULE	
SELECT THE DAYS YOU WISH THE SEQUENCE TO RUN	
<input type="checkbox"/> SUNDAY <input type="checkbox"/> MONDAY <input type="checkbox"/> TUESDAY <input type="checkbox"/> WED <input type="checkbox"/> THURS <input type="checkbox"/> FRIDAY <input type="checkbox"/> SATURDAY	
START AT	
<input type="button" value="8"/> ▶ : <input type="button" value="30"/> ▶ <input type="button" value="PM"/> ▶	
NEXT START DATE	
<input type="button" value="2000"/> ▶ <input type="button" value="DEC"/> ▶ <input type="button" value="15"/> ▶ <input type="button" value="▼"/>	
<input type="button" value="SUBMIT"/>	

FIG. 15U

1544

SCHEDULE ENTRY					
SELECT SOURCE INFORMATION					
SEQUENCE: INCOME STATEMENT ANALYSIS					
STEP: 1					
QUERY: NEW QUERY					
SOURCE NAME	DV ▼ DV PART				
		CONTINUE			

FIG. 15V

1546

SCHEDULE ENTRY
SELECT SOURCE INFORMATION
SEQUENCE: INCOME STATEMENT ANALYSIS
STEP: 1
QUERY: NEW QUERY
SOURCE NAME
PART
SOURCE SET
OAS ▶
CONTINUE

FIG. 15W

1548

FILTER VALUES FOR QUERY			
SEQUENCE: INCOME STATEMENT ANALYSIS			
SCHEDULE: INCOME STATEMENT ANALYSIS FOR DECEMBER 2000			
SEQUENCE STEP: 1			
NEW QUERY			
TABLE NAME	COL NAME	OP	FILTER VALUE
BUDGET_D	BUDGET	IN	<input type="button" value="ACTUAL"/> <input type="button" value="▼"/> <input type="button" value="MOD"/> <input type="button" value="CORPORATE 1997"/> <input type="button" value="▼"/> <input type="button" value="MOD"/> <input type="button" value=""/> <input type="button" value="▼"/> <input type="button" value="DEL"/> <input type="button" value=""/> <input type="button" value="▼"/> <input type="button" value="ADD"/>
PERIOD_D	PERIOD	=	<input type="button" value="DEC-2000"/> <input type="button" value="▼"/> <input type="button" value="MOD"/> <input type="button" value=""/> <input type="button" value="▼"/> <input type="button" value="FINISHED"/>
IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED			

FIG. 15X

1550
→

SEQUENCE OUTPUT PRIVILEGES						
SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000						
USER	ACCESS	FORMAT	ST	CS	RESULT TAG	RESULT VALUE
NEILB	EMAIL_DATA ▼	HTML ▶	▼	▶		
NEILB	LARRYS					
	ERICH					
	MARC					
	SALES					
	MARKET					
	HQ					

IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED

FINISHED

FIG. 15Y

1552

SEQUENCE OUTPUT PRIVILEGES						
SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000		ACCESS	FORMAT	ST	CS	RESULT TAG
USER	EMAIL	DATA	HTML	▼	▼	RESULT VALUE
NEILB	▼	EMAIL_DATA	▼	▼	▼	ADD
		EMAIL_DATA				
		EMAIL_URL				
		WEB				
		DESK_ALERT				

IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED

FINISHED

FIG. 15Z

1554

SEQUENCE OUTPUT PRIVILEGES SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000							GROUPS
USER	ACCESS	FORMAT	ST	CSS RESULT TAG	RESULT VALUE	OPT	
NEILB	EMAIL_DATA ▼	HTML ▼	▼	3		<input type="button" value="ADD"/>	
			1				
			2				
		HTML	▼				
		WAP					
		XML					
		EXCEL					
		PALM VII					
		PALM MAIL					

IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD,
MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED

FIG. 15AA

1556

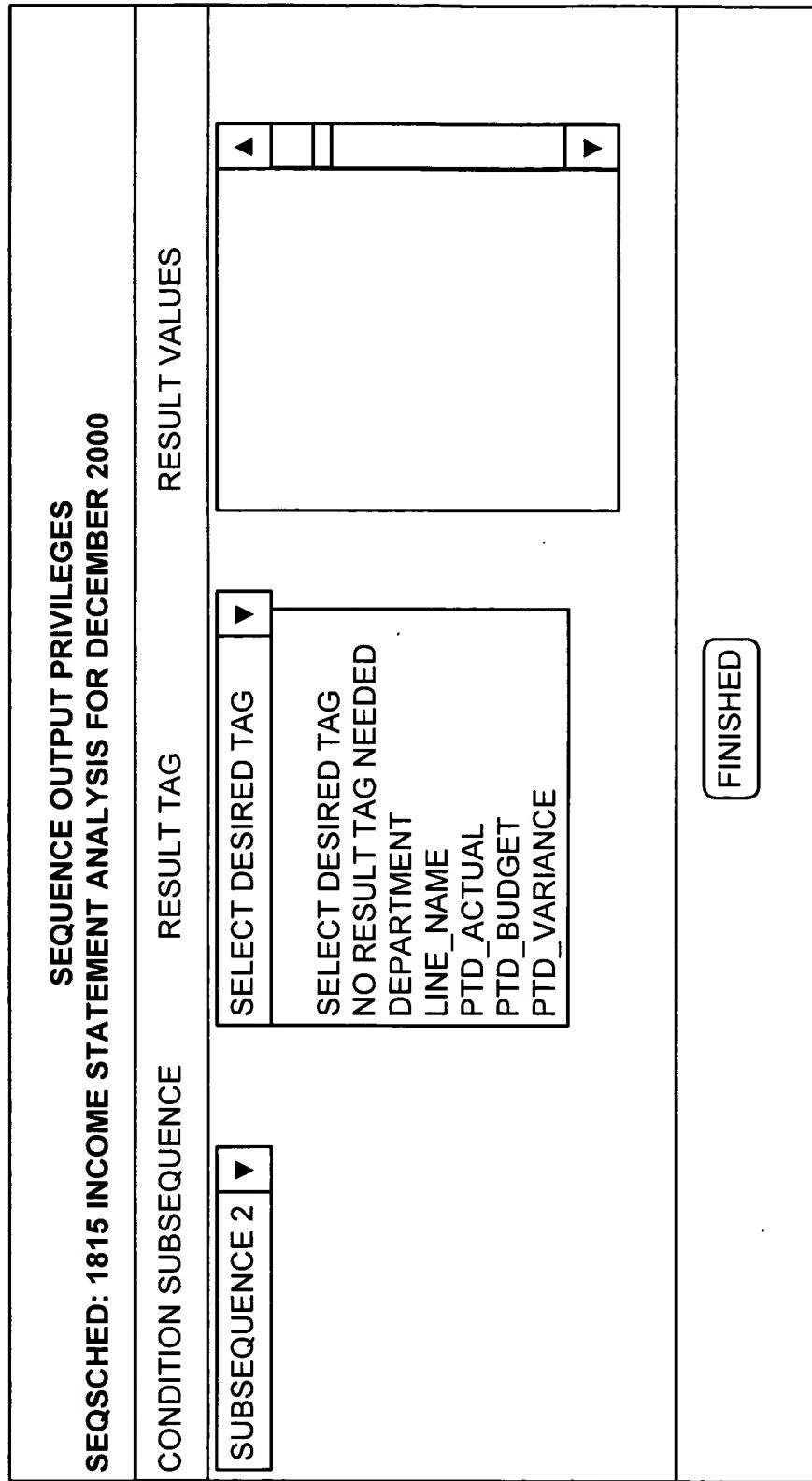


FIG. 15BB

1558
→

SEQUENCE OUTPUT PRIVILEGES	
SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	
SELECT	
<VAL>	<input type="checkbox"/> MAINTENANCE</VAL>
<VAL>	<input type="checkbox"/> MANUFACTURING</VAL>
<VAL>	<input type="checkbox"/> MANUFACTURING PLANT 1</VAL>
<VAL>	<input type="checkbox"/> MANUFACTURING PLANT 2</VAL>
<VAL>	<input type="checkbox"/> MARKETING</VAL>
<VAL>	<input checked="" type="checkbox"/> NON-PRODUCT SALES</VAL>
<VAL>	<input type="checkbox"/> ORDER ENTRY</VAL>
<VAL>	<input type="checkbox"/> PARENT TOTAL</VAL>
<VAL>	<input type="checkbox"/> PAYROLL</VAL>
<VAL>	<input checked="" type="checkbox"/> PRODUCT SALES</VAL>
<VAL>	<input type="checkbox"/> </SPLIT VALUES>

FINISHED

FIG. 15CC

1560
→

SEQUENCE OUTPUT PRIVILEGES		
CONDITION SUBSEQUENCE	RESULT TAG	RESULT VALUES
SUBSEQUENCE 2 ▶	DEPARTMENT ▶	<pre><?XML VERSION = "1.0"?> <SPLIT VALUES> <VAL>COMMERCIAL SALES</VAL> <VAL>COMMUNICATIONS RESOURCES</VAL> <VAL>EAST REGION SALES</VAL> <VAL>FINANCES</VAL> <VAL>GOVERNMENT SALES</VAL> <VAL>NON-PRODUCT SALES</VAL> <VAL>PRODUCT SALES</VAL> </SPLIT VALUES></pre>
		FINISHED

F016020 " EOT 52660

FIG. 15DD

1562
→

SEQUENCE OUTPUT PRIVILEGES							GROUPS
USER	ACCESS	FORMAT	ST	CSS RESULT	TAG	RESULT VALUE	OPT
NEILB ▼	EMAIL_DATA ▼	HTML ▼	▶	3			ADD
NEILB	EMAIL_DATA ▼	HTML ▼	2 ▶	2	DEPARTME	<?XML VERSION =	MOD
							DEL

IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD,
MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED

FINISHED

卷之三

FIG. 15EE

1564

SCHEDULE SEQUENCES					
SEQUENCE NAME	USER	SCHEDULE DESC	FREQ	PRIORITY	
TEST SEQUENCE FOR PRIV ▼	LS		IMMEDIATE ▼		<input type="button" value="ADD"/>
SELECT SEQUENCE TO VIEW					
TEST SEQUENCE FOR PRIVS AND STEPS ▼					<input type="button" value="VIEW"/>
TEST SEQUENCE FOR PRIVS AND STEPS					
COST CENTER SCORING - PTD					
COST CENTER SCORING - PTD VARIANCE					
TEST VOAGE					
AR - PTD REVENUEN BY DEPARTMENT					
SOCCER SCORES					
BUDGET VARIANCE SCORING					
INCOME STATEMENT ANALYSIS					

FIG. 15FF

1566

SCHEDULE SEQUENCES					
SEQUENCE NAME	USER	SCHEDULE DESC	FREQ	PRIORITY	
<input type="button" value="TEST SEQUENCE FOR PRIV ▶"/>	LS	<input type="button" value="IMMEDIATE ▶"/>	<input type="button" value="ADD"/>		
SELECT SEQUENCE TO VIEW					
<input type="button" value="TEST SEQUENCE FOR PRIVS AND STEPS ▶"/>					
<input type="button" value="VIEW"/>					
SEQUENCE: INCOME STATEMENT ANALYSIS USER: NB					
ID	DESCRIPTION	STATUS	FREQ	START	OPTIONS
1815	INCOME STAT'T ANALYSIS DEC 2001	<input type="button" value="DAILY ▶"/>	23-APR-2001 08:30 PM	<input type="button" value="MOD"/>	<input type="button" value="DEL"/>
				<input type="button" value="PRIVILEGES"/>	

FIG. 16A

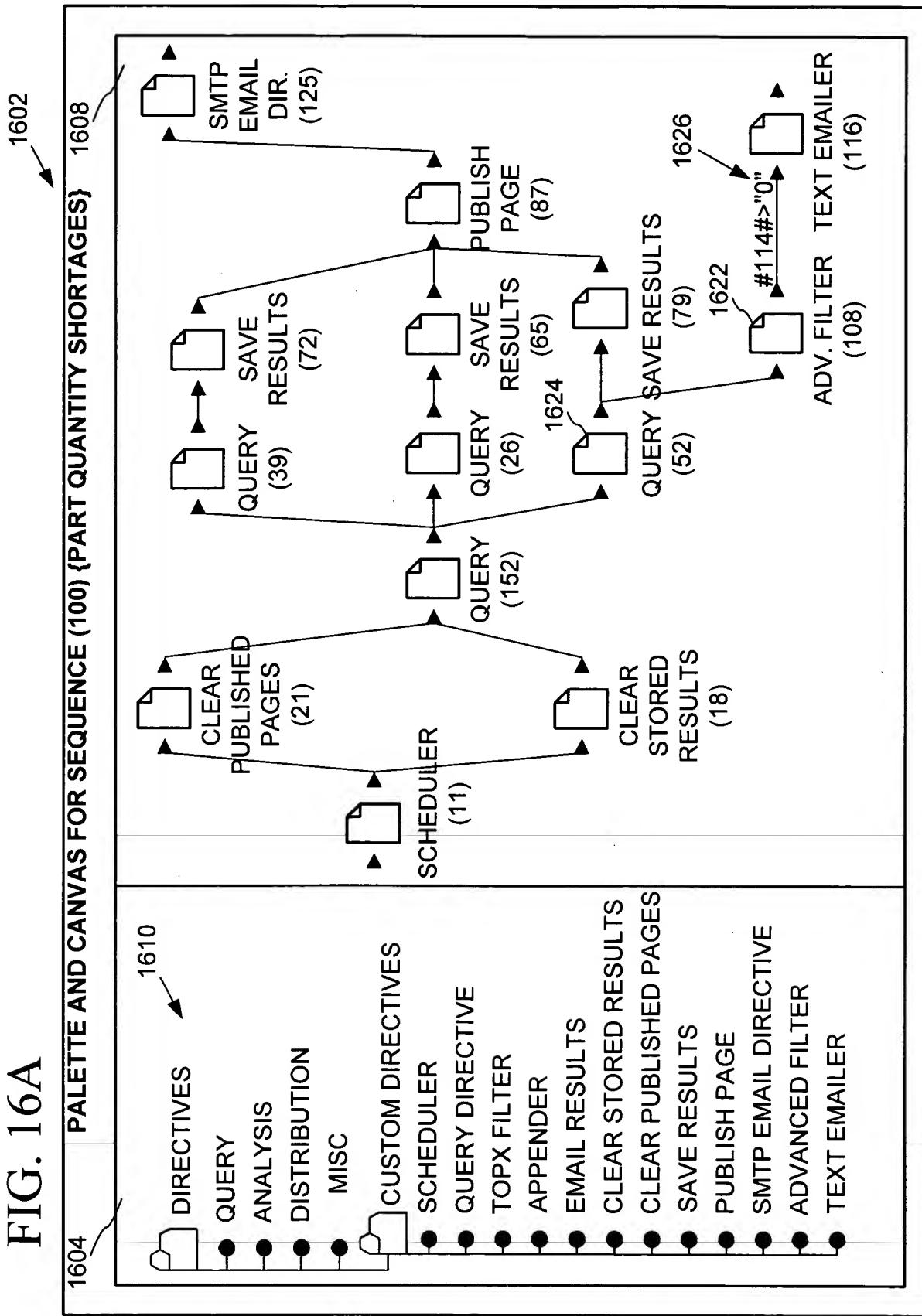


FIG. 16B

1630

SEQUENCE PROPERTIES	
SEQUENCE NAME:	PART QUANTITY SHORTAGES
DESCRIPTION:	FINDS PART QUANTITY SHORTAGES
NOTES:	SAVE THIS ONE
SEQUENCE AUTHOR:	AUTHOR1
SEQUENCE STATUS:	STATUS1
GLOBAL VARIABLES:	
CAPTION:	CONNECT STRING
VALUE:	JDBC:ORACLE:THIN@123.245.23.1:1521:CONNECT30
CAPTION:	DATABASE USER NAME
VALUE:	RRIC1234
CAPTION:	DATABASE PASSWORD
VALUE:	SEQUENCE
CAPTION:	OWNERNAME
VALUE:	QRY_ANALYSIS
CAPTION:	CURRENT PERIOD
VALUE:	(1997-09) SEP-97
<input type="button" value="OK"/> <input type="button" value="CANCEL"/> <input type="button" value="ADD VARIABLE"/>	

FIG. 16C

1660
→

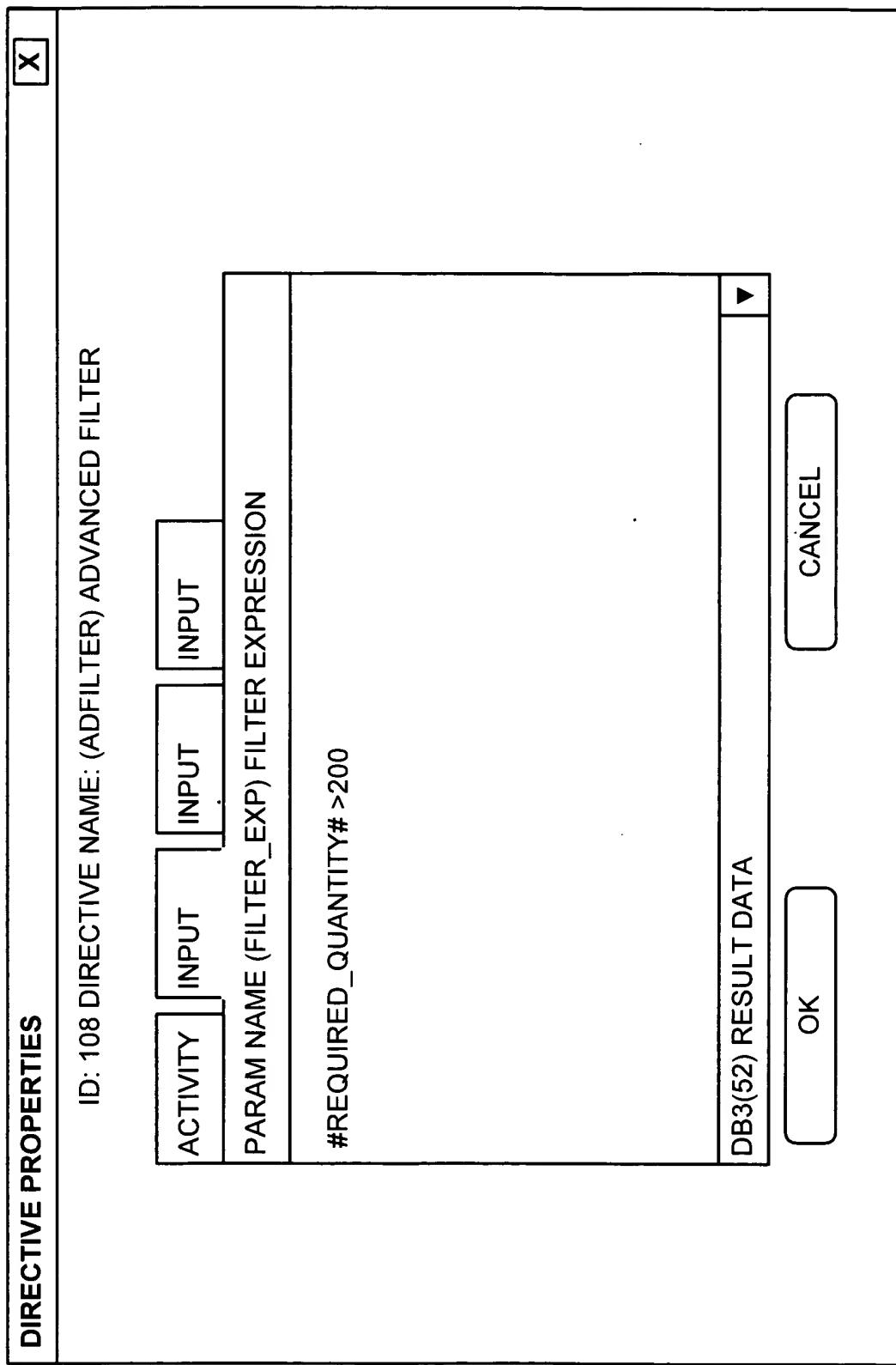


FIG. 17

1702

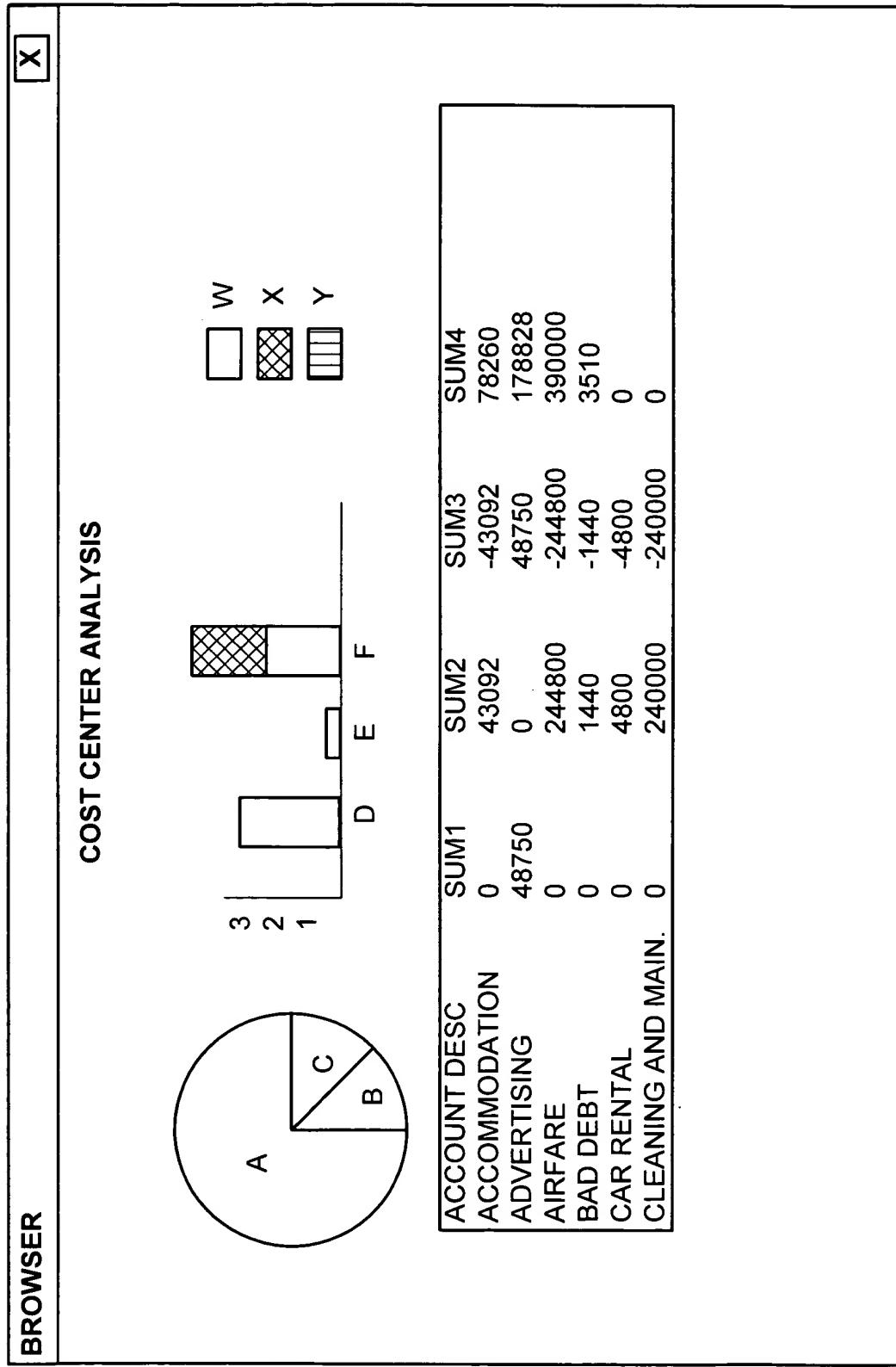


FIG. 18

1801

```
<DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="DB2" DIRECTIVE_NAME="DATA DIRECTIVE"  
THREADING_EFFECT="SPLIT" DIRECTIVE_DESC="SQL DATADIRECTIVE THAT SPLITS  
RESULTS ON GIVEN COLUMN" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"  
DIRECTIVE_CATEGORY="DPA-MISC">  
    <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"  
PORT="9070"/>  
    <IN_PARAMETERS>  
        <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SQL"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="SQL"/>  
        <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="COLUMN TO SPLIT"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLIT_COLUMN"/>  
        <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="CONNECTION STRING"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="CONNECTION_STRING"/>  
        <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE USER NAME"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="USERNAME"/>  
        <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE PASSWORD"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="PWD"/>  
    </IN_PARAMETERS>  
    <OUT_PARAMETERS>  
        <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET"/>  
        <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA"/>  
        <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="SPLIT VALUE"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLITVALUE"/>  
    </OUT_PARAMETERS>  
</DF_DIRECTIVE_DEFINITION>
```

1901

FIG. 19A

```
- <DF_DIRECTIVE_DEFINITION_LIST>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="SB1" DIRECTIVE_NAME="SCHEDULER"
DIRECTIVE_CATEGORY="DPA-MISC" THREADING_EFFECT="SPLIT"
DIRECTIVE_DESC="SCHEDULE DIRECTIVE" DIRECTIVE_VENDOR="DPA"
DIRECTIVE_VERSION="1">
- <!-- CAN ADD A TYPE OR ICON NAME
-->
- <IN_PARAMETERS>
<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="FREQUENCY"
PARAM_DATA_TYPE="STRING" PARAM_NAME="FREQUENCY" />
</IN_PARAMETERS>
<OUT_PARAMETERS />
<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />
</DF_DIRECTIVE_DEFINITION>
<DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="DB2" DIRECTIVE_NAME="DATA DIRECTIVE"
THREADING_EFFECT="SPLIT" DIRECTIVE_DESC="SQL DATADIRECTIVE THAT SPLITS
RESULTS ON GIVEN COLUMN" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE_CATEGORY="DPA-MISC">
<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />
<IN_PARAMETERS>
<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SQL"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SQL" />
<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="COLUMN TO SPLIT"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLIT_COLUMN" />
<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="CONNECTION STRING"
PARAM_DATA_TYPE="STRING" PARAM_NAME="CONNECTION_STRING" />
<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE USER NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="USERNAME" />
<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE PASSWORD"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PWD" />
</IN_PARAMETERS>
```

FIG. 19B

1902

```
- <OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="SPLIT VALUE"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLITVALUE" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="AB1" DIRECTIVE_NAME="TOPX FILTER"
  THREADING_EFFECT="STANDARD" DIRECTIVE_DESC="FILTER OUT TOP X ROWS FROM
  RESULTSET" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
  DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
  PORT="9070" />
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="COLUMN POSITION FOR TOPX"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="TOPX_COLUMN" />
</IN_PARAMETERS>
<OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="AB2" DIRECTIVE_NAME="APPENDER"
  DIRECTIVE_TYPE="" THREADING_EFFECT="JOIN" DIRECTIVE_DESC="REJOIN SPLIT
  RESULTSETS" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
  DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
</IN_PARAMETERS>
```

1903

FIG. 19C

```
- <OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="MB1" DIRECTIVE_NAME="EMAIL RESULTS"
THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE="" DIRECTIVE_DESC="SIMPLE
EMAIL DIRECTIVE" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />
</IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL ADDRESS LIST"
PARAM_DATA_TYPE="STRING" PARAM_NAME="MAILADR" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SUBJECT LINE"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SUBJECT" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="MESSAGE DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="MESSAGE" />
</IN_PARAMETERS>
<OUT_PARAMETERS />
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="CRB1" DIRECTIVE_NAME="CLEAR STORED
RESULTS" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""
DIRECTIVE_DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY"
DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-
MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />
<- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="OWNER ID"
PARAM_DATA_TYPE="STRING" PARAM_NAME="OWNERID" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULTNAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTNAME" />
</IN_PARAMETERS>
<OUT_PARAMETERS />
</DF_DIRECTIVE_DEFINITION>
```

1904

FIG. 19D

```
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="CRC1" DIRECTIVE_NAME="CLEAR  
PUBLISHED PAGES" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""  
DIRECTIVE_DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM REPOSITORY"  
DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-  
MISC">  
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />  
- <IN_PARAMETERS>  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="OWNERID"  
  PARAM_DATA_TYPE="STRING" PARAM_NAME="OWNERID" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE NAME"  
  PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGENAME" />  
  </IN_PARAMETERS>  
  <OUT_PARAMETERS />  
</DF_DIRECTIVE_DEFINITION>  
<DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="SR1" DIRECTIVE_NAME="SAVE RESULTS"  
THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE="" DIRECTIVE_DESC="SAVES  
RESULTS TO REPOSITORY" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"  
DIRECTIVE_CATEGORY="DPA-MISC">  
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />  
- <IN_PARAMETERS>  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET OWNER"  
  PARAM_DATA_TYPE="STRING" PARAM_NAME="OWNER" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET"  
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET METADATA"  
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET NAME"  
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTNAME" />  
  </IN_PARAMETERS>  
- <OUT_PARAMETERS>  
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULTSET ID"  
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSETID" />  
  </OUT_PARAMETERS>  
</DF_DIRECTIVE_DEFINITION>
```

1905

FIG. 19E

```
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="CR2" DIRECTIVE_NAME="PUBLISH PAGE"  
THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE="" DIRECTIVE_DESC="PUBLISHES  
PAGE & GRANTS SECURITY" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"  
DIRECTIVE_CATEGORY="DPA-MISC">  
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />  
>  
- <IN_PARAMETERS>  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="GRANT SECURITY LIST"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="SECDOC" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="METADATA FOR SECDOC"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="SECMETA" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="GRANT SECURITY LIST"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="SECCOLNAME" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE OWNER"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="OWNER" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE NAME"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGENAME" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE SLICE NAME"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGESLICENAME" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE DEFINITION"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGEDEFN" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="IN RESULTS KEY"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="P1" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="IN RESULTS KEY"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="P2" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="IN RESULTS KEY"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="P3" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="IN RESULTS KEY"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="P4" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="IN RESULTS KEY"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="P5" />  
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="IN RESULTS KEY"  
PARAM_DATA_TYPE="STRING" PARAM_NAME="P6" />  
</IN_PARAMETERS>
```

FIG. 19F

1906

```
- <OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="PAGE ID"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGEID" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="PAGE OWNER"
PARAM_DATA_TYPE="STRING" PARAM_NAME="OWNER" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="PAGE NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGENAME" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="PAGE SLICE NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGESLICENAME" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="DB3" DIRECTIVE_NAME="DATA DIRECTIVE"
DIRECTIVE_EFFECT="STANDARD" DIRECTIVE_DESC="RETRIEVE DATA AND ASSEMBLE
INTO RESULT SET" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />
<IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SQL"
PARAM_DATA_TYPE="PARAMETERIZED SQL STRING" PARAM_NAME="SQL" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="CONNECTION STRING"
PARAM_DATA_TYPE="STRING" PARAM_NAME="CONNECTION_STRING" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE USER NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="USERNAME" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE PASSWORD"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PWD" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P1" PARAM_DATA_TYPE="STRING"
PARAM_NAME="P1" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P2" PARAM_DATA_TYPE="STRING"
PARAM_NAME="P2" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P3" PARAM_DATA_TYPE="STRING"
PARAM_NAME="P3" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P4" PARAM_DATA_TYPE="STRING"
PARAM_NAME="P4" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P5" PARAM_DATA_TYPE="STRING"
PARAM_NAME="P5" />
</IN_PARAMETERS>
```

1907

FIG. 19G

```
- <OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="MB2" DIRECTIVE_NAME="SMTP EMAIL
DIRECTIVE" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""
DIRECTIVE_DESC="SEND PUBLISHED PAGES" DIRECTIVE_VENDOR="DPA"
DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />
</DF_DIRECTIVE_DEFINITION>
<IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL ADDRESSES"
PARAM_DATA_TYPE="STRING" PARAM_NAME="ADDRDOC" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="METADATA FOR ADDRDOC"
PARAM_DATA_TYPE="STRING" PARAM_NAME="ADDRMETA" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL COLUMN NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="ADRCOLNAME" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL COLUMN NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="IDCOLNAME" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SUBJECT"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SUBJECT" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE OWNER"
PARAM_DATA_TYPE="STRING" PARAM_NAME="OWNER" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGENAME" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE INSTANCE"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGEINST" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="MAIL FORMAT"
PARAM_DATA_TYPE="STRING" PARAM_NAME="FORMAT" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SEND FROM MAIL ADDRESS"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SENDERFROM" />
</IN_PARAMETERS>
```

FIG. 19H

1908

```
- <OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="ERROR MESSAGES"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="ERROR_MSG" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="ABFILTER" DIRECTIVE_NAME="ADVANCED
  FILTER" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""
  DIRECTIVE_DESC="FILTER RESULTS" DIRECTIVE_VENDOR="DPA"
  DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /
>
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="FILTER EXPRESSION"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="FILTER_EXP" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULTS METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="METADOC" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULTS"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSDOC" />
</IN_PARAMETERS>
-<OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULTS METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="METADOC" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULTS"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSDOC" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="ROW COUNT"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="ROWCOUNT" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="TEXTEMAILER" DIRECTIVE_NAME="TEXT
  EMAILER" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""
  DIRECTIVE_DESC="TEXT EMAILER" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
  DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /
>
```

FIG. 19I

1909

```
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SUBJECT EXPRESSION"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="SUBJECT_EXP" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="MESSAGE EXPRESSION"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="MESSAGE_EXP" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL ADDRESSES"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="EMAIL_ADDRESSES" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SEND FROM ADDRESS"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="FROM_ADDRESS" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULTS METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="METADOC" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULTS"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSDOC" />
</IN_PARAMETERS>
<OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="ERROR MESSAGES"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="ERROR" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
</DF_DIRECTIVE_DEFINITION_LIST>
```

1909

FIG. 20A

2001

```
- <RESULTS_DOC>
- <DP_QUERY_DEF VERSION="1">
  <DPA_IDENTIFIERS DATA_SET="NW" WH_OWNER_NAME="RROC" />
  <HINTS />
- <COLUMN_DEFS>
  <COLUMN_DEF COLUMN_SORT_ATTRIBUTE="NONE"
    COLUMN_TEXT="VENDOR_NAME" TABLE_ALIAS="VENDOR_D"
    COLUMN_NAME="VENDOR_NAME" COLUMN_ALIAS="VENDOR_NAME"
    COLUMN_SORT_ORDER="1" COLUMN_POSITION="1"
    COLUMN_TYPE="GROUP_BY" />
  <COLUMN_DEF COLUMN_SORT_ATTRIBUTE="NONE"
    COLUMN_TEXT="PERIOD_KEY" TABLE_ALIAS="AP_INV_DETAIL_F"
    COLUMN_NAME="PERIOD_KEY" COLUMN_ALIAS="PERIOD_KEY"
    COLUMN_SORT_ORDER="2" COLUMN_POSITION="2"
    COLUMN_TYPE="GROUP_BY" />
  <COLUMN_DEF COLUMN_SORT_ATTRIBUTE="DESC"
    COLUMN_TEXT="SUM(AP_INV_DETAIL_F.INVOICE_LINE_AMOUNT)"
    TABLE_ALIAS="AP_INV_DETAIL_F"
    COLUMN_NAME="INVOICE_LINE_AMOUNT"
    COLUMN_ALIAS="SUM_INVOICE_LINE_AMOUNT"
    COLUMN_SORT_ORDER="3" COLUMN_POSITION="3"
    COLUMN_TYPE="AGGREGATE" />
  </COLUMN_DEFS>
- <TABLE_DEFS>
  <TABLE_DEF TABLE_ALIAS="AP_INV_DETAIL_F"
    TABLE_NAME="AP_INV_DETAIL_F" />
  <TABLE_DEF TABLE_ALIAS="VENDOR_D" TABLE_NAME="VENDOR_D" />
</TABLE_DEFS>
- <DETAIL_FILTERS>
- <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="VENDOR_TYPE"
  TABLE_ALIAS="VENDOR_D" FILTER_PREC_OPER="AND"
  FILTER_OPERATOR="=>
  <FILTER_VALUE VALUE_DATA_TYPE="STRING">EMPLOYEE</
  FILTER_VALUE>
</FILTER>
```

FO500000-500152660

FIG. 20B

2002

```
- <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="COMPANY_KEY"  
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"  
FILTER_OPERATOR="=">  
  <FILTER_VALUE VALUE_DATA_TYPE="STRING">01</FILTER_VALUE>  
  </FILTER>  
  </DETAIL_FILTERS>  
- <AGGREGATE_FILTERS>  
- <FILTER FILTER_TYPE="VALUE"  
COLUMN_TEXT="SUM(INVOICE_LINE_AMOUNT)"  
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"  
FILTER_OPERATOR="">>  
  <FILTER_VALUE VALUE_DATA_TYPE="NUMBER">0</FILTER_VALUE>  
  </FILTER>  
  </AGGREGATE_FILTERS>  
  </DP_QUERY_DEF>  
  <DPA_QUERY_SERVER_INFO SERVICE="DPA_QUERY_SERVER"  
MACHINE="EXH_2K" PORT="8069"  
WAREHOUSE_SERVER="HD.DPAPPLICATIONS.COM"  
WAREHOUSE_DBNAME="DEMO30"  
WAREHOUSE_OWNER="RROC">FOODADDY</  
DPA_QUERY_SERVER_INFO>  
- <DP_DS_METADATA>  
  <DP_COLUMN COLUMN_NAME="VENDOR_NAME"  
COLUMN_DATA_TYPE="VARCHAR2" COLUMN_DS_ALIAS="C1"  
COLUMN_TYPE="GROUP_BY" COLUMN_SORT_ATTRIBUTE="NONE"  
COLUMN_SOURCE_ALIAS="VENDOR_NAME"  
COLUMN_LABEL="VENDOR NAME" COLUMN_DESC=""  
COLUMN_IS_CURRENCY="N" />  
  <DP_COLUMN COLUMN_NAME="PERIOD_KEY"  
COLUMN_DATA_TYPE="VARCHAR2" COLUMN_DS_ALIAS="C2"  
COLUMN_TYPE="GROUP_BY" COLUMN_SORT_ATTRIBUTE="NONE"  
COLUMN_SOURCE_ALIAS="PERIOD_KEY" COLUMN_LABEL="PERIOD  
KEY" COLUMN_DESC="" COLUMN_IS_CURRENCY="N" />  
  <DP_COLUMN COLUMN_NAME="SUM_INVOICE_LINE_AMOUNT"  
COLUMN_DATA_TYPE="NUMBER" COLUMN_DS_ALIAS="C3"  
COLUMN_TYPE="AGGREGATE" COLUMN_SORT_ATTRIBUTE="DESC"  
COLUMN_SOURCE_ALIAS="SUM_INVOICE_LINE_AMOUNT"  
COLUMN_LABEL="INVOICE LINE AMOUNT" COLUMN_DESC=""  
COLUMN_IS_CURRENCY="Y" />
```

2002-09-06 10:59:59

FIG. 20C

2003

```
</DP_DS_METADATA>
- <DP_DS>
- <R>
<C1>JAMIE FROST</C1>
<C2>DEC-97</C2>
<C3>28159</C3>
</R>
- <R>
<C1>JAMIE FROST</C1>
<C2>JAN-98</C2>
<C3>15114.76</C3>
</R>
- <R>
<C1>JAMIE FROST</C1>
<C2>FEB-98</C2>
<C3>4417.86</C3>
</R>
- <R>
<C1>KERRY JONES</C1>
<C2>APR-98</C2>
<C3>3439.10</C3>
</R>
- <R>
<C1>KERRY JONES</C1>
<C2>DEC-97</C2>
<C3>3263</C3>
</R>
- <R>
<C1>JAMIE FROST</C1>
<C2>NOV-97</C2>
<C3>2907.85</C3>
</R>
- <R>
<C1>KERRY JONES</C1>
<C2>FEB-98</C2>
<C3>2799.31</C3>
</R>
```

FIG. 20C

FIG. 20D

2004

```
- <R>
<C1>KERRY JONES</C1>
<C2>MAY-98</C2>
<C3>2698.64</C3>
</R>
- <R>
<C1>JAMIE FROST</C1>
<C2>APR-98</C2>
<C3>2657.20</C3>
</R>
- <R>
<C1>JAMIE FROST</C1>
<C2>MAY-98</C2>
<C3>2549.68</C3>
</R>
- <R>
<C1>KERRY JONES</C1>
<C2>MAR-98</C2>
<C3>2511.98</C3>
</R>
- <R>
<C1>JAMIE FROST</C1>
<C2>MAR-98</C2>
<C3>2459.87</C3>
</R>
- <R>
<C1>JAMIE FROST</C1>
<C2>JUN-98</C2>
<C3>2219.90</C3>
</R>
- <R>
<C1>KERRY JONES</C1>
<C2>JUN-98</C2>
<C3>2182.29</C3>
</R>
- <R>
<C1>KERRY JONES</C1>
<C2>JAN-98</C2>
<C3>1516</C3>
</R>
```

2004-06-06 14:52:56.0

FIG. 20E

```
- <R>
<C1>BLACK, CHRIS</C1>
<C2>NOV-97</C2>
<C3>651.06</C3>
</R>
</DP_DS>
</RESULTS_DOC>
```

2005

FIG. 21A

2101

```
- <DF_WORKFLOW VERSION="1">
  <DF_WORKFLOW_HEADER DF_EDITOR_MAX_ID="172" FLOW_NAME="QTY ANALYSIS"
  FLOW_DESCRIPTION="QTY ANALYSIS FLOW" FLOW_STATUS="FLOW STATUS"
  FLOW_NOTES="" FLOW_AUTHOR="FLOW AUTHOR" />
- <DF_WORKFLOW_PARAMETERS>
- <PARAMETER NODE_ID="13" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="CONNECT STRING" PARAM_NAME="CONNECT_STRING"
  PARAM_TYPE="OUT">
  <PARAM_SOURCE
    PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@172.16.1.34:1521:DEMO30</
  PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="14" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USER_NAME"
  PARAM_TYPE="OUT">
  <PARAM_SOURCE PARAM_TYPE="VALUE">RROC609</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="15" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="USER_PWD"
  PARAM_TYPE="OUT">
  <PARAM_SOURCE PARAM_TYPE="VALUE">DPA</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="16" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="OWNERNAME" PARAM_NAME="OWNERNAME" PARAM_TYPE="OUT">
  <PARAM_SOURCE PARAM_TYPE="VALUE">QTY_ANALYSIS</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="17" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="CURRENT PERIOD" PARAM_NAME="CURRPERIOD"
  PARAM_TYPE="OUT">
  <PARAM_SOURCE PARAM_TYPE="VALUE">(1997-09) SEP-97</PARAM_SOURCE>
</PARAMETER>
</DF_WORKFLOW_PARAMETERS>
- <DF_WORKFLOW_ACTIVITIES>
- <ACTIVITY NODE_ID="11">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
  ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
  DIRECTIVE_NAME="SCHEDULER" THREADING_EFFECT="SPLIT" DIRECTIVE_ID="SB1"
  DIRECTIVE_VERSION="1" DIRECTIVE_DESC="SCHEDULE DIRECTIVE" />
```

2102

FIG. 21B

```
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="12" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="FREQUENCY" PARAM_NAME="FREQUENCY" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="VALUE">0</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
<ACTIVITY_OUT_PARAMETERS />
</ACTIVITY>
- <ACTIVITY NODE_ID="18">
<ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
<ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" DIRECTIVE_NAME="CLEAR
STORED RESULTS" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="CRB1"
DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="REMOVE PREVIOUS
RESULT SETS FROM REPOSITORY" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="19" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="OWNER
ID" PARAM_NAME="OWNERID" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="20" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTNAME" PARAM_NAME="RESULTNAME" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="VALUE">*</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
<ACTIVITY_OUT_PARAMETERS />
</ACTIVITY>
- <ACTIVITY NODE_ID="21">
<ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
<ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" DIRECTIVE_NAME="CLEAR
PUBLISHED PAGES" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="CRC1"
DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="REMOVE PREVIOUS
PUBLISHED PAGES FROM REPOSITORY" />
```

2103

FIG. 21C

```
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="22" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="OWNERID" PARAM_NAME="OWNERID" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="23" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE
NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="VALUE">*</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
<ACTIVITY_OUT_PARAMETERS />
</ACTIVITY>
- <ACTIVITY NODE_ID="26">
<ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="DETAIL QUERY" />
<ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" DIRECTIVE_NAME="DATA
DIRECTIVE" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="DB3"
DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE DATA AND ASSEMBLE INTO
RESULT SET" />
<ACTIVITY_IN_PARAMETERS>
<PARAMETER NODE_ID="27" PARAM_DATA_TYPE="PARAMETERIZED_SQL_STRING"
PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="VALUE">SELECT
NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC
COMPONENT_ITEM_DESC,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED)
QUANTITY_ISSUED,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND)
QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT)
QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY)
REQUIRED_QUANTITY FROM NW_COMPONENT_ITEM_D_0
NW_COMPONENT_ITEM_D,NW_DISC_SHORTAGE_F_0
NW_DISC_SHORTAGE_F,NW_ORG_PERIOD_D_0
NW_ORG_PERIOD_D,NW_WIP_ENTITY_D_0 NW_WIP_ENTITY_D WHERE
NW_DISC_SHORTAGE_F.COMPONENT_ITEM_KEY =
NW_COMPONENT_ITEM_D.COMPONENT_ITEM_KEY AND
NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY = NW_ORG_PERIOD_D.ORG_PERIOD_KEY
AND NW_DISC_SHORTAGE_F.WIP_ENTITY_KEY = NW_WIP_ENTITY_D.WIP_ENTITY_KEY
AND NW_ORG_PERIOD_D.ORG_PERIOD = '#P1#' GROUP BY
NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC HAVING
SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) > 0 ORDER BY
REQUIRED_QUANTITY DESC, COMPONENT_ITEM_DESC, REQUIRED_QUANTITY,
QUANTITY_ISSUED, QUANTITY_SHORT, QUANTITY_ON_HAND</PARAM_SOURCE>
</PARAMETER>
```

FIG. 21D

2104

```
- <PARAMETER NODE_ID="28" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING"  
PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="29" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"  
PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="30" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="31" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P1"  
PARAM_NAME="P1" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="32" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P2"  
PARAM_NAME="P2" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="33" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P3"  
PARAM_NAME="P3" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="34" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P4"  
PARAM_NAME="P4" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="35" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P5"  
PARAM_NAME="P5" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
</ACTIVITY_IN_PARAMETERS>
```

2105

FIG. 21E

```
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="36" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
DATA" PARAM_NAME="RESULTSET" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="37" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE_ID="39">
<ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="TREND QUERY" />
<ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" DIRECTIVE_NAME="DATA
DIRECTIVE" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="DB3"
DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE DATA AND ASSEMBLE INTO
RESULT SET" />
<ACTIVITY_IN_PARAMETERS>
<PARAMETER NODE_ID="40" PARAM_DATA_TYPE="PARAMETERIZED_SQL_STRING"
PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="VALUE">SELECT NW_ORG_PERIOD_D.ORG_PERIOD
PERIOD_NAME,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED)
QUANTITY_ISSUED,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND)
QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT)
QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY)
REQUIRED_QUANTITY FROM NW_DISC_SHORTAGE_F_0 NW_DISC_SHORTAGE_F,
NW_ORG_PERIOD_D_0 NW_ORG_PERIOD_D WHERE
NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY = NW_ORG_PERIOD_D.ORG_PERIOD_KEY
GROUP BY NW_ORG_PERIOD_D.ORG_PERIOD ORDER BY PERIOD_NAME DESC</
PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="41" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING"
PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
```

FIG. 21F

2106

```
- <PARAMETER NODE_ID="42" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"  
PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="43" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="44" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P1"  
PARAM_NAME="P1" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="45" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P2"  
PARAM_NAME="P2" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="46" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P3"  
PARAM_NAME="P3" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="47" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P4"  
PARAM_NAME="P4" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="48" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P5"  
PARAM_NAME="P5" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
</ACTIVITY_IN_PARAMETERS>  
- <ACTIVITY_OUT_PARAMETERS>  
- <PARAMETER NODE_ID="49" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT  
DATA" PARAM_NAME="RESULTSET" PARAM_TYPE="OUT">  
  <PARAM_SOURCE />  
</PARAMETER>  
- <PARAMETER NODE_ID="50" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT  
METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="OUT">  
  <PARAM_SOURCE />  
</PARAMETER>  
</ACTIVITY_OUT_PARAMETERS>  
</ACTIVITY>
```

2107

FIG. 21G

```
- <ACTIVITY NODE_ID="52">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
    ACTIVITY_DESCRIPTION="SUMMARY QUERY" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" DIRECTIVE_NAME="DATA
    DIRECTIVE" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="DB3"
    DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE DATA AND ASSEMBLE INTO
    RESULT SET" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="53" PARAM_DATA_TYPE="PARAMETERIZED_SQL_STRING"
  PARAM_Caption="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT
  NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC
  COMPONENT_ITEM_DESC,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED)
  QUANTITY_ISSUED,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND)
  QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT)
  QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY)
  REQUIRED_QUANTITY FROM NW_COMPONENT_ITEM_D_0
  NW_COMPONENT_ITEM_D,NW_DISC_SHORTAGE_F_0
  NW_DISC_SHORTAGE_F,NW_ORG_PERIOD_D_0
  NW_ORG_PERIOD_D,NW_WIP_ENTITY_D_0 NW_WIP_ENTITY_D WHERE
  NW_DISC_SHORTAGE_F.COMPONENT_ITEM_KEY =
  NW_COMPONENT_ITEM_D.COMPONENT_ITEM_KEY AND
  NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY = NW_ORG_PERIOD_D.ORG_PERIOD_KEY
  AND NW_DISC_SHORTAGE_F.WIP_ENTITY_KEY = NW_WIP_ENTITY_D.WIP_ENTITY_KEY
  AND NW_ORG_PERIOD_D.ORG_PERIOD = '#P1#' GROUP BY
  NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC HAVING
  SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) > 0 ORDER BY
  REQUIRED_QUANTITY DESC, COMPONENT_ITEM_DESC, REQUIRED_QUANTITY,
  QUANTITY_ISSUED, QUANTITY_SHORT, QUANTITY_ON_HAND</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="54" PARAM_DATA_TYPE="STRING"
  PARAM_Caption="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="55" PARAM_DATA_TYPE="STRING"
  PARAM_Caption="DATABASE USER NAME" PARAM_NAME="USERNAME"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE>
</PARAMETER>
```

FIG. 21H

2108

```
- <PARAMETER NODE_ID="56" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="57" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P1"  
PARAM_NAME="P1" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="58" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P2"  
PARAM_NAME="P2" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="59" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P3"  
PARAM_NAME="P3" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="60" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P4"  
PARAM_NAME="P4" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="61" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P5"  
PARAM_NAME="P5" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
</ACTIVITY_IN_PARAMETERS>  
- <ACTIVITY_OUT_PARAMETERS>  
- <PARAMETER NODE_ID="62" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT  
DATA" PARAM_NAME="RESULTSET" PARAM_TYPE="OUT">  
  <PARAM_SOURCE />  
</PARAMETER>  
- <PARAMETER NODE_ID="63" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT  
METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="OUT">  
  <PARAM_SOURCE />  
</PARAMETER>  
</ACTIVITY_OUT_PARAMETERS>  
</ACTIVITY>
```

2109

FIG. 21I

```
- <ACTIVITY NODE_ID="65">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
    ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
    THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS"
    DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
    DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="66" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="67" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">36</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="68" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">37</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="69" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET NAME" PARAM_NAME="RESULTNAME" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">DETAIL</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="70" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID" PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE_ID="72">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
    ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
    THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS"
    DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
    DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />
```

2110

FIG. 21J

```
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="73" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="74" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">49</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="75" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">50</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="76" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET NAME" PARAM_NAME="RESULTNAME" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="VALUE">TREND</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
<PARAMETER NODE_ID="77" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
<ACTIVITY NODE_ID="79">
<ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
<ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS"
DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="80" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT
SET OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
```

FIG. 21K

2111

```
- <PARAMETER NODE_ID="81" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULTSET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">62</PARAM_SOURCE>  
 </PARAMETER>  
- <PARAMETER NODE_ID="82" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULTSET METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">63</PARAM_SOURCE>  
 </PARAMETER>  
- <PARAMETER NODE_ID="83" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULTSET NAME" PARAM_NAME="RESULTNAME" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="VALUE">SUMMARY</PARAM_SOURCE>  
 </PARAMETER>  
 </ACTIVITY_IN_PARAMETERS>  
- <ACTIVITY_OUT_PARAMETERS>  
- <PARAMETER NODE_ID="84" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID" PARAM_TYPE="OUT">  
  <PARAM_SOURCE />  
 </PARAMETER>  
 </ACTIVITY_OUT_PARAMETERS>  
 </ACTIVITY>  
- <ACTIVITY NODE_ID="87">  
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES" ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />  
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="PUBLISH PAGE" DIRECTIVE_ID="CR2" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="PUBLISHES PAGE & GRANTS SECURITY" />  
- <ACTIVITY_IN_PARAMETERS>  
- <PARAMETER NODE_ID="88" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="GRANT SECURITY LIST" PARAM_NAME="SECDOC" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">162</PARAM_SOURCE>  
 </PARAMETER>  
- <PARAMETER NODE_ID="89" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="METADATA FOR SECDOC" PARAM_NAME="SECMETA" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">163</PARAM_SOURCE>  
 </PARAMETER>  
- <PARAMETER NODE_ID="90" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="GRANT SECURITY LIST" PARAM_NAME="SECCOLNAME" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME</PARAM_SOURCE>  
 </PARAMETER>
```

2112

FIG. 21L

```
- <PARAMETER NODE_ID="91" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="92" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="VALUE">STARTPAGE</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="93" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE SLICE NAME" PARAM_NAME="PAGESLICENAME" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="VALUE">FIRST</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="94" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE DEFINITION" PARAM_NAME="PAGEDEFN" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="VALUE"><DP_PAGE_DEF><LAYER  
    LAYER_TYPE="HORIZONTAL" LAYER_BORDER="0" LAYER_PADDING="3"  
    LAYER_HEIGHT="100%" LAYER_WIDTH="100%"><LAYER LAYER_TYPE="VERTICAL"  
    LAYER_PADDING="3" LAYER_BORDER="0" LAYER_HEIGHT="225"  
    LAYER_WIDTH="100%"><LAYER LAYER_TYPE="WIDGET" LAYER_HEIGHT="100%"  
    LAYER_WIDTH="50%"><WIDGET WIDGET_ID="DP_PIE_CHART"><PARAMETERS><PARAM  
      PARAM_NAME="TITLE">MY PIE</PARAM><PARAM PARAM_NAME="DSID">#P3#</PARAM><PARAM  
      PARAM_NAME="VALUECOL">REQUIRED_QUANTITY</PARAM><PARAM  
      PARAM_NAME="LABELCOL">COMPONENT_ITEM_DESC</PARAM><PARAM  
      PARAM_NAME="FILTERTYPE">TOP</PARAM><PARAM PARAM_NAME="FILTERVAL">10</PARAM></PARAMETERS></WIDGET></LAYER><LAYER LAYER_TYPE="WIDGET"  
    LAYER_HEIGHT="100%" LAYER_WIDTH="50%"><WIDGET  
      WIDGET_ID="DP_BAR_CHART2"><PARAMETERS><PARAM PARAM_NAME="TITLE">MY  
      CHART TITLE</PARAM><PARAM PARAM_NAME="DSID">#P2#</PARAM><PARAM  
      PARAM_NAME="MEASURECOLS">QUANTITY_ON_HAND|QUANTITY_ISSUED|QUANTITY_SH  
      ORT|REQUIRED_QUANTITY</PARAM><PARAM PARAM_NAME="XAXISLABELS">ON  
      HAND|ISSUED|SHORT|REQUIRED</PARAM><PARAM  
      PARAM_NAME="SERIESCOL">PERIOD_NAME</PARAM></PARAMETERS></WIDGET></LAYER></LAYER><LAYER LAYER_TYPE="HORIZONTAL" LAYER_BORDER="0"  
    LAYER_PADDING="3" LAYER_HEIGHT="80%" LAYER_WIDTH="100%"><LAYER  
    LAYER_TYPE="WIDGET" LAYER_HEIGHT="100%" LAYER_WIDTH="100%"><WIDGET  
      WIDGET_ID="DP_REPORT_VIEWER"><PARAMETERS><PARAM PARAM_NAME="TITLE">MY  
      TITLE</PARAM> <PARAM PARAM_NAME="DSID">#P1#</PARAM></PARAMETERS></WIDGET></LAYER></LAYER></DP_PAGE_DEF></PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="95" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P1" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>  
</PARAMETER>
```

2113

FIG. 21M

```
- <PARAMETER NODE_ID="96" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN
RESULTS KEY" PARAM_NAME="P2" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">77</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="97" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN
RESULTS KEY" PARAM_NAME="P3" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">84</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="98" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN
RESULTS KEY" PARAM_NAME="P4" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="99" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN
RESULTS KEY" PARAM_NAME="P5" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="100" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN
RESULTS KEY" PARAM_NAME="P6" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
<ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="101" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE
ID" PARAM_NAME="PAGEID" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="102" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE
OWNER" PARAM_NAME="OWNER" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="103" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE
NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="104" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE
SLICE NAME" PARAM_NAME="PAGESLICENAME" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
```

FIG. 21N

2114

```
- <ACTIVITY NODE_ID="108">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
    ACTIVITY_DESCRIPTION="OUTOF BOUNDS QTY" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
    THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="ADVANCED FILTER"
    DIRECTIVE_ID="ABFILTER" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
    DIRECTIVE_DESC="FILTER RESULTS" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="109" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="FILTER
  EXPRESSION" PARAM_NAME="FILTER_EXP" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">#REQUIRED_QUANTITY# > 200</
  PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="110" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">63</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="111" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">62</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="112" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC"
  PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="113" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="114" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="ROW
  COUNT" PARAM_NAME="ROWCOUNT" PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
```

FIG. 21O

2115

```
- <ACTIVITY NODE_ID="116">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
  ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
  THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="TEXT EMAILER"
  DIRECTIVE_ID="TEXTEMAILER" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
  DIRECTIVE_DESC="TEXT EMAILER" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="117" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="SUBJECT EXPRESSION" PARAM_NAME="SUBJECT_EXP"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">OUT OF BOUNDS QTY CONDITION</
  PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="118" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="MESSAGE EXPRESSION" PARAM_NAME="MESSAGE_EXP"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">COMPONENT: #COMPONENT_ITEM_DESC#
  REQUIRES #REQUIRED_QUANTITY# ADDITIONAL UNITS</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="119" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="EMAIL
  ADDRESSES" PARAM_NAME="EMAIL_ADDRESSES" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">EXH@DPAPPLICATIONS.COM</
  PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="120" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="SEND
  FROM ADDRESS" PARAM_NAME="FROM_ADDRESS" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM</
  PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="121" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">112</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="122" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">113</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
```

FIG. 21P

2116

```
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="123" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="ERROR
MESSAGES" PARAM_NAME="ERROR" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE_ID="125">
<ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="EMAIL LINK" />
<ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SMTP EMAIL DIRECTIVE"
DIRECTIVE_ID="MB2" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
DIRECTIVE_DESC="SEND PUBLISHED PAGES" />
-<ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="126" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="EMAIL
ADDRESSES" PARAM_NAME="ADDRDOC" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">162</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="127" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="METADATA FOR ADDRDOC" PARAM_NAME="ADDRMETA"
PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">163</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="128" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="EMAIL
COLUMN NAME" PARAM_NAME="ADRCOLNAME" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="VALUE">EMAIL_ADDRESS</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="129" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="EMAIL
COLUMN NAME" PARAM_NAME="IDCOLNAME" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="130" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="SUBJECT" PARAM_NAME="SUBJECT" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="VALUE">QTY ANALYSIS UPDATED</PARAM_SOURCE>
</PARAMETER>
```

FIG. 21Q

2117

```
- <PARAMETER NODE_ID="131" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">102</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="132" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">103</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="133" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE INSTANCE" PARAM_NAME="PAGEINST" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">104</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="134" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="MAIL FORMAT" PARAM_NAME="FORMAT" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="VALUE">DYNAM</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="135" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="SEND FROM MAIL ADDRESS" PARAM_NAME="SEDFROM" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM</PARAM_SOURCE>  
</PARAMETER>  
</ACTIVITY_IN_PARAMETERS>  
<ACTIVITY_OUT_PARAMETERS>  
- <PARAMETER NODE_ID="136" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="ERROR MESSAGES" PARAM_NAME="ERROR_MSG" PARAM_TYPE="OUT">  
  <PARAM_SOURCE />  
</PARAMETER>  
<ACTIVITY_OUT_PARAMETERS>  
</ACTIVITY>  
- <ACTIVITY NODE_ID="152">  
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"  
    ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />  
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"  
    THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="DATA DIRECTIVE"  
    DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE DATA AND  
    ASSEMBLE INTO RESULT SET" />
```

2118

FIG. 21R

```
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="153" PARAM_DATA_TYPE="PARAMETERIZED_SQL_STRING"
PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT USERNAME,EMAIL_ADDRESS FROM
OA3.DF_QTYAPP_USERS</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="154" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING"
PARAM_TYPE="IN">
  <PARAM_SOURCE
PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@HD.DPAPPLICATIONS.COM:1521:NRB816</
PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="155" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="156" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="157" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P1"
PARAM_NAME="P1" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="158" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P2"
PARAM_NAME="P2" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="159" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P3"
PARAM_NAME="P3" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="160" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P4"
PARAM_NAME="P4" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="161" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P5"
PARAM_NAME="P5" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
```

FIG. 21S

2119

```
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="162" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="163" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"
PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
</DF_WORKFLOW_ACTIVITIES>
-<DF_WORKFLOW_TRANSITIONS>
<TRANSITION NODE_ID="24" FROM_ACTIVITY_ID="11" TO_ACTIVITY_ID="18"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="25" FROM_ACTIVITY_ID="11" TO_ACTIVITY_ID="21"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="71" FROM_ACTIVITY_ID="26" TO_ACTIVITY_ID="65"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="78" FROM_ACTIVITY_ID="39" TO_ACTIVITY_ID="72"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="85" FROM_ACTIVITY_ID="52" TO_ACTIVITY_ID="79"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="105" FROM_ACTIVITY_ID="65" TO_ACTIVITY_ID="87"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="106" FROM_ACTIVITY_ID="72" TO_ACTIVITY_ID="87"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="107" FROM_ACTIVITY_ID="79" TO_ACTIVITY_ID="87"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="115" FROM_ACTIVITY_ID="52" TO_ACTIVITY_ID="108"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="124" FROM_ACTIVITY_ID="108" TO_ACTIVITY_ID="116"
TRANSITION_EXPRESSION="#114# > "0"" DESCRIPTION="EMAIL ONLY EXCEPTIONS"
NOTES="NOTES" />
```

FIG. 21T

2120

```
<TRANSITION NODE_ID="137" FROM_ACTIVITY_ID="87" TO_ACTIVITY_ID="125"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="164" FROM_ACTIVITY_ID="18" TO_ACTIVITY_ID="152"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="165" FROM_ACTIVITY_ID="21" TO_ACTIVITY_ID="152"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="166" FROM_ACTIVITY_ID="152" TO_ACTIVITY_ID="26"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="167" FROM_ACTIVITY_ID="152" TO_ACTIVITY_ID="39"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
<TRANSITION NODE_ID="168" FROM_ACTIVITY_ID="152" TO_ACTIVITY_ID="52"
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />
</DF_WORKFLOW_TRANSITIONS>
</DF_WORKFLOW_EDITOR>
<ACTIVITY_VISUAL_EDITING NODE_ID="11" YCOORD="140" XCOORD="12" />
<ACTIVITY_VISUAL_EDITING NODE_ID="18" YCOORD="330" XCOORD="47" />
<ACTIVITY_VISUAL_EDITING NODE_ID="21" YCOORD="50" XCOORD="60" />
<ACTIVITY_VISUAL_EDITING NODE_ID="26" YCOORD="200" XCOORD="294" />
<ACTIVITY_VISUAL_EDITING NODE_ID="39" YCOORD="70" XCOORD="294" />
<ACTIVITY_VISUAL_EDITING NODE_ID="52" YCOORD="320" XCOORD="304" />
<ACTIVITY_VISUAL_EDITING NODE_ID="65" YCOORD="200" XCOORD="408" />
<ACTIVITY_VISUAL_EDITING NODE_ID="72" YCOORD="70" XCOORD="408" />
<ACTIVITY_VISUAL_EDITING NODE_ID="79" YCOORD="320" XCOORD="428" />
<ACTIVITY_VISUAL_EDITING NODE_ID="87" YCOORD="200" XCOORD="537" />
<ACTIVITY_VISUAL_EDITING NODE_ID="108" YCOORD="430" XCOORD="359" />
<ACTIVITY_VISUAL_EDITING NODE_ID="116" YCOORD="420" XCOORD="587" />
<ACTIVITY_VISUAL_EDITING NODE_ID="125" YCOORD="320" XCOORD="580" />
<ACTIVITY_VISUAL_EDITING NODE_ID="152" YCOORD="200" XCOORD="160" />
</DF_WORKFLOW_EDITOR>
</DF_WORKFLOW>
```

FIG. 22A

2201

```
<DP_QUERY_DEF VERSION="1">
  <DPA_IDENTIFIERS DATA_SET="OAS" WH_OWNER_NAME="PART"/>
  <HINTS/>
  <COLUMN_DEFS>
    <COLUMN_DEF SUMMARY_TYPE="SUM" COLUMN_NAME="PTD_BUDGET"
    COLUMN_ALIAS="PTD_BUDGET" COLUMN_SORT_ORDER="3"
    COLUMN_SORT_ATTRIBUTE="NONE" COLUMN_TYPE="MEASURE" COLUMN_EXPR=""
    COLUMN_POSITION="3" TABLE_ALIAS="INCOME_STMT_A" COLUMN_TAG="PTD_BUDGET"/>
    <COLUMN_DEF SUMMARY_TYPE="NONE" COLUMN_NAME="LINE_NAME"
    COLUMN_ALIAS="LINE_NAME" COLUMN_SORT_ORDER="1"
    COLUMN_SORT_ATTRIBUTE="ASC" COLUMN_TYPE="ATTRIBUTE" COLUMN_EXPR=""
    COLUMN_POSITION="1" TABLE_ALIAS="INC_STMT_LINES_D" COLUMN_TAG="LINE_NAME"/>
    <COLUMN_DEF SUMMARY_TYPE="SUM" COLUMN_NAME="PTD_VARIANCE_PCT"
    COLUMN_ALIAS="PTD_VARIANCE_PCT" COLUMN_SORT_ORDER="6"
    COLUMN_SORT_ATTRIBUTE="NONE" COLUMN_TYPE="MEASURE" COLUMN_EXPR=""
    COLUMN_POSITION="6" TABLE_ALIAS="INCOME_STMT_A"
    COLUMN_TAG="PTD_VAR_PCT"/>
    <COLUMN_DEF SUMMARY_TYPE="NONE" COLUMN_NAME="DEPARTMENT_DESC"
    COLUMN_ALIAS="DEPT_DESC" COLUMN_SORT_ORDER="2"
    COLUMN_SORT_ATTRIBUTE="ASC" COLUMN_TYPE="ATTRIBUTE" COLUMN_EXPR=""
    COLUMN_POSITION="2" TABLE_ALIAS="DEPARTMENT_D" COLUMN_TAG="DEPT_DESC"/>
    <COLUMN_DEF SUMMARY_TYPE="SUM" COLUMN_NAME="PTD_VARIANCE"
    COLUMN_ALIAS="PTD_VARIANCE" COLUMN_SORT_ORDER="5"
    COLUMN_SORT_ATTRIBUTE="NONE" COLUMN_TYPE="MEASURE" COLUMN_EXPR=""
    COLUMN_POSITION="5" TABLE_ALIAS="INCOME_STMT_A" COLUMN_TAG="PTD_VAR"/>
    <COLUMN_DEF SUMMARY_TYPE="SUM" COLUMN_NAME="PTD_ACTUAL"
    COLUMN_ALIAS="PTD_ACTUAL" COLUMN_SORT_ORDER="4"
    COLUMN_SORT_ATTRIBUTE="NONE" COLUMN_TYPE="MEASURE" COLUMN_EXPR=""
    COLUMN_POSITION="4" TABLE_ALIAS="INCOME_STMT_A" COLUMN_TAG="PTD_ACTUAL"/>
  </COLUMN_DEFS>
```

FIG. 22B

2202

```
<TABLE_DEFS>
  <TABLE_DEF TABLE_ALIAS="VENDOR_D" TABLE_NAME="VENDOR_D"/>
  <TABLE_DEF TABLE_ALIAS="AP_INV_DETAIL_F" TABLE_NAME="AP_INV_DETAIL_F"/>
  <TABLE_DEF TABLE_ALIAS="INCOME_STMT_A" TABLE_NAME="INCOME_STMT_A"/>
  <TABLE_DEF TABLE_ALIAS="DEPARTMENT_D" TABLE_NAME="DEPARTMENT_D"/>
  <TABLE_DEF TABLE_ALIAS="INC_STMT_LINES_D"
    TABLE_NAME="INC_STMT_LINES_D"/>
</TABLE_DEFS>
<DETAIL_FILTERS>
  <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="PERIOD_KEY"
    TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER_OPERATOR="=">
    <FILTER_VALUE VALUE_DATA_TYPE="STRING">DEC-97</FILTER_VALUE>
  </FILTER>
  <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="VENDOR_TYPE"
    TABLE_ALIAS="VENDOR_D" FILTER_PREC_OPER="AND" FILTER_OPERATOR="=">
    <FILTER_VALUE VALUE_DATA_TYPE="STRING">EMPLOYEE</FILTER_VALUE>
  </FILTER>
  <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="COMPANY_KEY"
    TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER_OPERATOR="=">
    <FILTER_VALUE VALUE_DATA_TYPE="STRING">01</FILTER_VALUE>
  </FILTER>
  <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="DEPARTMENT_KEY"
    TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER_OPERATOR="=">
    <FILTER_VALUE VALUE_DATA_TYPE="STRING">560</FILTER_VALUE>
  </FILTER>
</DETAIL_FILTERS>
<AGGREGATE_FILTERS>
  <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="SUM(INVOICE_LINE_AMOUNT)"
    TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
    FILTER_OPERATOR=">">
    <FILTER_VALUE VALUE_DATA_TYPE="NUMBER">0</FILTER_VALUE>
  </FILTER>
</AGGREGATE_FILTERS>
</DP_QUERY_DEF>
```

FIG. 23A

2301

```
- <DP_SCHEMA_DOC VERSION="1">
  <DPA_QUERY_SERVER_INFO SERVICE="DPA_QUERY_SERVER" MACHINE="EXH_2K"
    PORT="8069" WAREHOUSE_SERVER="HD.DPAPPLICATIONS.COM"
    WAREHOUSE_DBNAME="DEMO30" WAREHOUSE_OWNER="RROC"
    SCHEMA="AP_INV_DETAIL_F" DATA_SET="NW">FOODADDY</
  DPA_QUERY_SERVER_INFO>
- <DP_DIMENSIONS>
- <DIMENSION LABEL="ACCOUNTING DATE" NAME="ACCOUNTING_DATE_D">
  <ATTRIBUTE LABEL="ACCOUNTING DATE KEY" NAME="ACCOUNTING_DATE_KEY" />
  <ATTRIBUTE LABEL="ACCOUNTING MONTH" NAME="ACCOUNTING_MONTH" />
  <ATTRIBUTE LABEL="ACCOUNTING PERIOD" NAME="ACCOUNTING_PERIOD" />
  <ATTRIBUTE LABEL="ACCOUNTING PERIOD KEY"
    NAME="ACCOUNTING_PERIOD_KEY" />
  <ATTRIBUTE LABEL="ACCOUNTING PERIOD QUARTER"
    NAME="ACCOUNTING_PERIOD_QUARTER" />
  <ATTRIBUTE LABEL="ACCOUNTING QUARTER" NAME="ACCOUNTING_QUARTER" />
  <ATTRIBUTE LABEL="ACCOUNTING WEEK ENDING"
    NAME="ACCOUNTING_WEEK_ENDING" />
  <ATTRIBUTE LABEL="ACCOUNTING YEAR" NAME="ACCOUNTING_YEAR" />
</DIMENSION>
- <DIMENSION LABEL="ACCOUNT" NAME="ACCOUNT_D">
  <ATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" />
  <ATTRIBUTE LABEL="LINE NAME" NAME="LINE_NAME" />
  <ATTRIBUTE LABEL="LINE SEQUENCE KEY" NAME="LINE_SEQUENCE_KEY" />
  <ATTRIBUTE LABEL="REPORT SECTION" NAME="REPORT_SECTION" />
  <ATTRIBUTE LABEL="REPORT SEQUENCE" NAME="REPORT_SEQUENCE" />
  <ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT_KEY" />
  <ATTRIBUTE LABEL="ACCOUNT DESCRIPTION" NAME="ACCOUNT_DESC" />
</DIMENSION>
- <DIMENSION LABEL="ACCOUNT ROLLUPS" NAME="ACCOUNT_RLUP_D">
  <ATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" />
  <ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT_KEY" />
  <ATTRIBUTE LABEL="ACCOUNT ROLLUP DESCRIPTION" NAME="ROLLUP_DESC" />
  <ATTRIBUTE LABEL="ACCOUNT ROLLUP CODE" NAME="ROLLUP_CODE" />
  <ATTRIBUTE LABEL="ACCOUNT DESCRIPTION" NAME="ACCOUNT_DESC" />
</DIMENSION>
- <DIMENSION LABEL="AP HOLD CODES" NAME="AP_HOLD_CODE_D">
  <ATTRIBUTE LABEL="AP HOLD CODE" NAME="AP_HOLD_CODE" />
  <ATTRIBUTE LABEL="AP HOLD CODE DESCRIPTION" NAME="AP_HOLD_CODE_DESC"
    />
  <ATTRIBUTE LABEL="AP HOLD CODE KEY" NAME="AP_HOLD_CODE_KEY" />
  <ATTRIBUTE LABEL="AP HOLD CODE TYPE" NAME="AP_HOLD_CODE_TYPE" />
</DIMENSION>
```

FIG. 23B

2302

```
- <DIMENSION LABEL="AP HOLD STATUS" NAME="AP_HOLD_STATUS_D">
<ATTRIBUTE LABEL="AP HOLD STATUS" NAME="AP_HOLD_STATUS" />
<ATTRIBUTE LABEL="AP HOLD STATUS KEY" NAME="AP_HOLD_STATUS_KEY" />
</DIMENSION>
- <DIMENSION LABEL="AP INVOICES" NAME="AP_INVOICE_D">
<ATTRIBUTE LABEL="AP INVOICE NUMBER" NAME="AP_INVOICE" />
<ATTRIBUTE LABEL="AP INVOICE DATE" NAME="AP_INVOICE_DATE" />
<ATTRIBUTE LABEL="AP INVOICE KEY" NAME="AP_INVOICE_KEY" />
</DIMENSION>
- <DIMENSION LABEL="AP INVOICE TYPES" NAME="AP_INVOICE_TYPE_D">
<ATTRIBUTE LABEL="AP INVOICE TYPE" NAME="AP_INVOICE_TYPE" />
<ATTRIBUTE LABEL="AP INVOICE TYPE KEY" NAME="AP_INVOICE_TYPE_KEY" />
</DIMENSION>
- <DIMENSION LABEL="AP PAYMENT TERMS" NAME="AP_PAYMENT_TERM_D">
<ATTRIBUTE LABEL="AP PAYMENT TERM" NAME="AP_PAYMENT_TERM" />
<ATTRIBUTE LABEL="AP PAYMENT TERM DESCRIPTION"
NAME="AP_PAYMENT_TERM_DESC" />
<ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP_PAYMENT_TERM_KEY" />
</DIMENSION>
- <DIMENSION LABEL="PO AUTHORIZER" NAME="AUTHORIZER_D">
<ATTRIBUTE LABEL="AUTHORIZER" NAME="AUTHORIZER" />
<ATTRIBUTE LABEL="AUTHORIZER KEY" NAME="AUTHORIZER_KEY" />
</DIMENSION>
- <DIMENSION LABEL="BUYERS" NAME="BUYER_D">
<ATTRIBUTE LABEL="BUYER" NAME="BUYER" />
<ATTRIBUTE LABEL="AUTHORIZATION LIMIT" NAME="BUYER_AUTHORIZATION_LIMIT"
/>
<ATTRIBUTE LABEL="END DATE ACTIVE" NAME="BUYER_END_DATE_ACTIVE" />
<ATTRIBUTE LABEL="BUYER KEY" NAME="BUYER_KEY" />
<ATTRIBUTE LABEL="START DATE ACTIVE" NAME="BUYER_START_DATE_ACTIVE" />
</DIMENSION>
- <DIMENSION LABEL="COMPANY" NAME="COMPANY_D">
<ATTRIBUTE LABEL="COMPANY" NAME="COMPANY" />
<ATTRIBUTE LABEL="COMPANY DESCRIPTION" NAME="COMPANY_DESC" />
<ATTRIBUTE LABEL="COMPANY KEY" NAME="COMPANY_KEY" />
</DIMENSION>
- <DIMENSION LABEL="CURRENCY" NAME="CURRENCY_D">
<ATTRIBUTE LABEL="CURRENCY" NAME="CURRENCY" />
<ATTRIBUTE LABEL="CURRENCY DESCRIPTION" NAME="CURRENCY_DESC" />
<ATTRIBUTE LABEL="CURRENCY KEY" NAME="CURRENCY_KEY" />
</DIMENSION>
```

FIG. 23C

2303

```
- <DIMENSION LABEL="DEPARTMENT" NAME="DEPARTMENT_D">
<ATTRIBUTE LABEL="DEPARTMENT" NAME="DEPARTMENT" />
<ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT_KEY" />
<ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT_DESC" />
</DIMENSION>
- <DIMENSION LABEL="DEPARTMENT ROLLUPS" NAME="DEPARTMENT_RLUP_D">
<ATTRIBUTE LABEL="DEPARTMENT" NAME="DEPARTMENT" />
<ATTRIBUTE LABEL="DEPARTMENT ROLLUP DESC" NAME="ROLLUP_DESC" />
<ATTRIBUTE LABEL="DEPARTMENT ROLLUP CODE" NAME="ROLLUP_CODE" />
<ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT_DESC" />
<ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT_KEY" />
</DIMENSION>
- <DIMENSION LABEL="AP DUE DATES" NAME="DUE_DATE_D">
<ATTRIBUTE LABEL="DUE DATE KEY" NAME="DUE_DATE_KEY" />
<ATTRIBUTE LABEL="DUE MONTH" NAME="DUE_MONTH" />
<ATTRIBUTE LABEL="DUE PERIOD" NAME="DUE_PERIOD" />
<ATTRIBUTE LABEL="DUE PERIOD KEY" NAME="DUE_PERIOD_KEY" />
<ATTRIBUTE LABEL="DUE PERIOD QUARTER" NAME="DUE_PERIOD_QUARTER" />
<ATTRIBUTE LABEL="DUE QUARTER" NAME="DUE_QUARTER" />
<ATTRIBUTE LABEL="DUE WEEK ENDING" NAME="DUE_WEEK_ENDING" />
<ATTRIBUTE LABEL="DUE YEAR" NAME="DUE_YEAR" />
</DIMENSION>
- <DIMENSION LABEL="INVOICE DATES" NAME="INVOICE_DATE_D">
<ATTRIBUTE LABEL="INVOICE DATE KEY" NAME="INVOICE_DATE_KEY" />
<ATTRIBUTE LABEL="INVOICE MONTH" NAME="INVOICE_MONTH" />
<ATTRIBUTE LABEL="INVOICE PERIOD" NAME="INVOICE_PERIOD" />
<ATTRIBUTE LABEL="INVOICE PERIOD KEY" NAME="INVOICE_PERIOD_KEY" />
<ATTRIBUTE LABEL="INVOICE PERIOD QUARTER"
NAME="INVOICE_PERIOD_QUARTER" />
<ATTRIBUTE LABEL="INVOICE QUARTER" NAME="INVOICE_QUARTER" />
<ATTRIBUTE LABEL="INVOICE WEEK ENDING" NAME="INVOICE_WEEK_ENDING" />
<ATTRIBUTE LABEL="INVOICE YEAR" NAME="INVOICE_YEAR" />
</DIMENSION>
- <DIMENSION LABEL="JE BATCHES" NAME="JE_BATCH_D">
<ATTRIBUTE LABEL="ACTUAL FLAG" NAME="ACTUAL_FLAG" />
<ATTRIBUTE LABEL="DEFAULT PERIOD NAME" NAME="DEFAULT_PERIOD_NAME" />
<ATTRIBUTE LABEL="JE BATCH KEY" NAME="JE_BATCH_KEY" />
<ATTRIBUTE LABEL="NAME" NAME="NAME" />
<ATTRIBUTE LABEL="ORG ID" NAME="ORG_ID" />
<ATTRIBUTE LABEL="DESCRIPTION" NAME="DESCRIPTION" />
<ATTRIBUTE LABEL="DATE CREATED" NAME="DATE_CREATED" />
</DIMENSION>
```

FIG. 23D

2304

```
- <DIMENSION LABEL="ORGANIZATIONS" NAME="ORGANIZATION_D">
<ATTRIBUTE LABEL="ORGANIZATION" NAME="ORGANIZATION" />
<ATTRIBUTE LABEL="ORGANIZATION KEY" NAME="ORGANIZATION_KEY" />
<ATTRIBUTE LABEL="ORGANIZATION TYPE" NAME="ORGANIZATION_TYPE" />
</DIMENSION>
- <DIMENSION LABEL="PA PROJECTS" NAME="PA_PROJECT_D">
<ATTRIBUTE LABEL="PROJECT KEY" NAME="PA_PROJECT_KEY" />
<ATTRIBUTE LABEL="PROJECT COMPLETE DATE"
NAME="PROJECT_COMPLETE_DATE" />
<ATTRIBUTE LABEL="PROJECT MANAGER" NAME="PROJECT_MANAGER" />
<ATTRIBUTE LABEL="PROJECT NAME" NAME="PROJECT_NAME" />
<ATTRIBUTE LABEL="PROJECT NUMBER" NAME="PROJECT_NUMBER" />
<ATTRIBUTE LABEL="PROJECT OFFICER" NAME="PROJECT_OFFICER" />
<ATTRIBUTE LABEL="PROJECT SPONSOR" NAME="PROJECT_SPONSOR" />
<ATTRIBUTE LABEL="PROJECT START DATE" NAME="PROJECT_START_DATE" />
<ATTRIBUTE LABEL="PROJECT STATUS" NAME="PROJECT_STATUS" />
<ATTRIBUTE LABEL="PROJECT TITLE" NAME="PROJECT_TITLE" />
<ATTRIBUTE LABEL="PROJECT TYPE" NAME="PROJECT_TYPE" />
</DIMENSION>
- <DIMENSION LABEL="PA TASKS" NAME="PA_TASK_D">
<ATTRIBUTE LABEL="PARENT TASK KEY" NAME="PARENT_TASK_KEY" />
<ATTRIBUTE LABEL="TASK LOCATION" NAME="TASK_LOCATION" />
<ATTRIBUTE LABEL="TASK NAME" NAME="TASK_NAME" />
<ATTRIBUTE LABEL="TASK MANAGER" NAME="TASK_MANAGER" />
<ATTRIBUTE LABEL="TOP TASK NAME" NAME="TOP_TASK_NAME" />
<ATTRIBUTE LABEL="TOP TASK KEY" NAME="TOP_TASK_KEY" />
<ATTRIBUTE LABEL="TASK WBS" NAME="TASK_WBS" />
<ATTRIBUTE LABEL="TASK START DATE" NAME="TASK_START_DATE" />
<ATTRIBUTE LABEL="TASK NUMBER" NAME="TASK_NUMBER" />
<ATTRIBUTE LABEL="TASK DESCRIPTION" NAME="TASK_DESC" />
<ATTRIBUTE LABEL="PARENT TASK NAME" NAME="PARENT_TASK_NAME" />
<ATTRIBUTE LABEL="PROJECT KEY" NAME="PA_PROJECT_KEY" />
<ATTRIBUTE LABEL="TASK COMPLETE DATE" NAME="TASK_COMPLETE_DATE" />
<ATTRIBUTE LABEL="TASK KEY" NAME="PA_TASK_KEY" />
</DIMENSION>
```

2305

FIG. 23E

```
- <DIMENSION LABEL="PERIODS" NAME="PERIOD_D">
<ATTRIBUTE LABEL="PERIOD" NAME="PERIOD" />
<ATTRIBUTE LABEL="PERIOD END DATE" NAME="PERIOD_END_DATE" />
<ATTRIBUTE LABEL="PERIOD KEY" NAME="PERIOD_KEY" />
<ATTRIBUTE LABEL="PERIOD START DATE" NAME="PERIOD_START_DATE" />
<ATTRIBUTE LABEL="PERIOD TYPE" NAME="PERIOD_TYPE" />
<ATTRIBUTE LABEL="QUARTER" NAME="QUARTER" />
<ATTRIBUTE LABEL="YEAR" NAME="YEAR" />
</DIMENSION>
- <DIMENSION LABEL="PRODUCT" NAME="PRODUCT_D">
<ATTRIBUTE LABEL="PRODUCT" NAME="PRODUCT" />
<ATTRIBUTE LABEL="PRODUCT DESCRIPTION" NAME="PRODUCT_DESC" />
<ATTRIBUTE LABEL="PRODUCT KEY" NAME="PRODUCT_KEY" />
</DIMENSION>
- <DIMENSION LABEL="PA PROJECT CLASSES" NAME="PROJECT_CLASS_D">
<ATTRIBUTE LABEL="PROJECT CLASS CATEGORY"
NAME="PROJECT_CLASS_CATEGORY" />
<ATTRIBUTE LABEL="PROJECT CLASS CODE" NAME="PROJECT_CLASS_CODE" />
<ATTRIBUTE LABEL="PROJECT CLASS DESCRIPTION"
NAME="PROJECT_CLASS_DESCRIPTION" />
<ATTRIBUTE LABEL="PROJECT KEY" NAME="PROJECT_KEY" />
</DIMENSION>
- <DIMENSION LABEL="PO REQUESTORS" NAME="REQUESTOR_D">
<ATTRIBUTE LABEL="REQUESTOR" NAME="REQUESTOR" />
<ATTRIBUTE LABEL="REQUESTOR KEY" NAME="REQUESTOR_KEY" />
</DIMENSION>
- <DIMENSION LABEL="SUB-ACCOUNT" NAME="SUB_ACCOUNT_D">
<ATTRIBUTE LABEL="SUB-ACCOUNT" NAME="SUB_ACCOUNT" />
<ATTRIBUTE LABEL="SUB-ACCOUNT KEY" NAME="SUB_ACCOUNT_KEY" />
<ATTRIBUTE LABEL="SUB-ACCOUNT DESCRIPTION" NAME="SUB_ACCOUNT_DESC" />
</DIMENSION>
- <DIMENSION LABEL="AP VENDORS" NAME="VENDOR_D">
<ATTRIBUTE LABEL="ACTIVE END DATE" NAME="ACTIVE_END_DATE" />
<ATTRIBUTE LABEL="ACTIVE FLAG" NAME="ACTIVE_FLAG" />
<ATTRIBUTE LABEL="ACTIVE START DATE" NAME="ACTIVE_START_DATE" />
<ATTRIBUTE LABEL="VENDOR SITE ADDRESS LINE1" NAME="ADDRESS_LINE1" />
<ATTRIBUTE LABEL="VENDOR SITE ADDRESS LINE2" NAME="ADDRESS_LINE2" />
<ATTRIBUTE LABEL="VENDOR SITE ADDRESS LINE3" NAME="ADDRESS_LINE3" />
<ATTRIBUTE LABEL="VENDOR SITE AREA CODE" NAME="AREA_CODE" />
<ATTRIBUTE LABEL="VENDOR SITE CITY" NAME="CITY" />
<ATTRIBUTE LABEL="VENDOR HOLD REASON" NAME="HOLD_REASON" />
<ATTRIBUTE LABEL="VENDOR SITE PHONE NUMBER" NAME="PHONE_NUMBER" />
```

FIG. 23F

2306

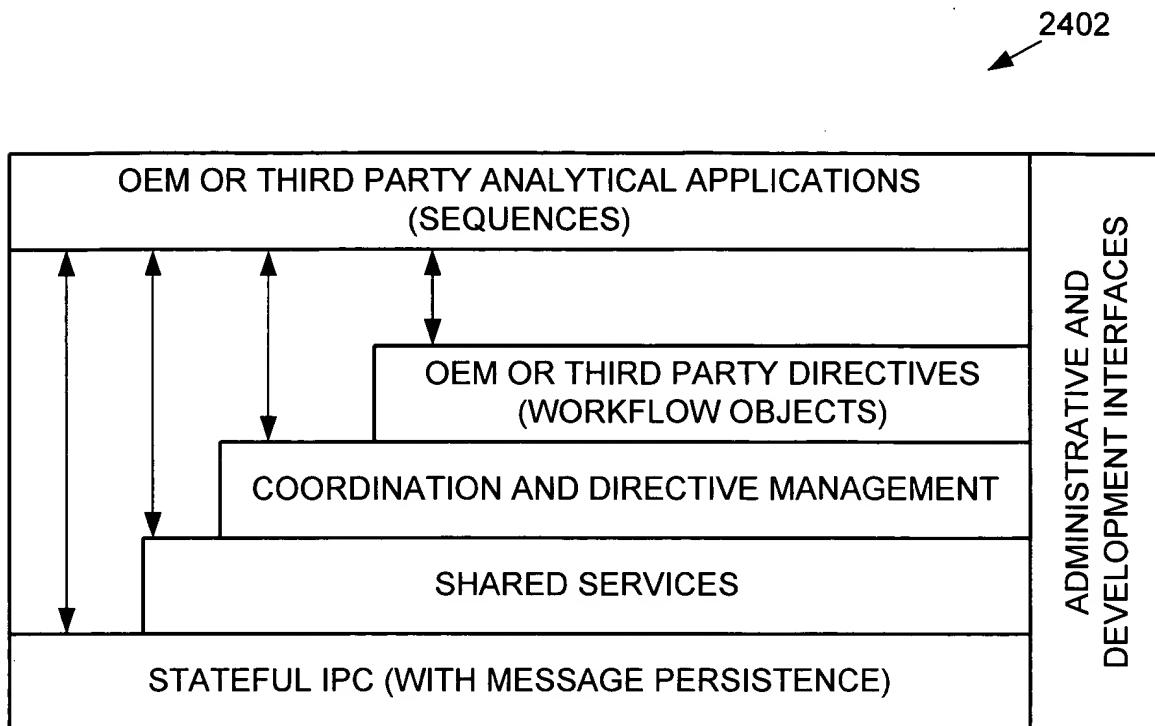
```
<ATTRIBUTE LABEL="VENDOR SITE PROVINCE" NAME="PROVINCE" />
<ATTRIBUTE LABEL="VENDOR SITE STATE" NAME="STATE" />
<ATTRIBUTE LABEL="VENDOR TAX FEDERAL FLAG"
NAME="TAX_FEDERAL_REPORT_FLAG" />
<ATTRIBUTE LABEL="VENDOR TAX REPORTING NAME"
NAME="TAX_REPORTING_NAME" />
<ATTRIBUTE LABEL="VENDOR TAX STATE FLAG" NAME="TAX_STATE_REPORT_FLAG"
/>
<ATTRIBUTE LABEL="VENDOR 1099 NUMBER" NAME="VENDOR_1099_NUM" />
<ATTRIBUTE LABEL="VENDOR 1099 TYPE" NAME="VENDOR_1099_TYPE" />
<ATTRIBUTE LABEL="VENDOR CORPORATE GROUP"
NAME="VENDOR_CORPORATE_GROUP" />
<ATTRIBUTE LABEL="VENDOR INDUSTRY CLASS"
NAME="VENDOR_INDUSTRY_CLASS" />
<ATTRIBUTE LABEL="VENDOR KEY" NAME="VENDOR_KEY" />
<ATTRIBUTE LABEL="VENDOR NAME" NAME="VENDOR_NAME" />
<ATTRIBUTE LABEL="VENDOR NUMBER" NAME="VENDOR_NUMBER" />
<ATTRIBUTE LABEL="VENDOR ORGANIZATION TYPE" NAME="VENDOR_ORG_TYPE" />
<ATTRIBUTE LABEL="VENDOR PAYMENT PRIORITY"
NAME="VENDOR_PAYMENT_PRIORITY" />
<ATTRIBUTE LABEL="VENDOR PAY GROUP" NAME="VENDOR_PAY_GROUP" />
<ATTRIBUTE LABEL="VENDOR SITE CODE" NAME="VENDOR_SITE_CODE" />
<ATTRIBUTE LABEL="VENDOR SITE KEY" NAME="VENDOR_SITE_KEY" />
<ATTRIBUTE LABEL="VENDOR TYPE" NAME="VENDOR_TYPE" />
<ATTRIBUTE LABEL="VENDOR SITE ZIP" NAME="ZIP" />
</DIMENSION>
- <DIMENSION LABEL="AP INVOICE DETAILS" NAME="AP_INV_DETAIL_F">
<ATTRIBUTE LABEL="ACCOUNTING DATE" NAME="ACCOUNTING_DATE" />
<ATTRIBUTE LABEL="ACCOUNTING DATE KEY" NAME="ACCOUNTING_DATE_KEY" />
<ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT_KEY" />
<ATTRIBUTE LABEL="APPROVAL STATUS" NAME="APPROVAL_STATUS" />
<ATTRIBUTE LABEL="AP INVOICE KEY" NAME="AP_INVOICE_KEY" />
<ATTRIBUTE LABEL="AP INVOICE TYPE KEY" NAME="AP_INVOICE_TYPE_KEY" />
<ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP_PAYMENT_TERM_KEY" />
<ATTRIBUTE LABEL="BUYER KEY" NAME="BUYER_KEY" />
<ATTRIBUTE LABEL="COMPANY KEY" NAME="COMPANY_KEY" />
<ATTRIBUTE LABEL="INVOICE CURRENCY CODE" NAME="CURRENCY_KEY" />
<ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT_KEY" />
<ATTRIBUTE LABEL="DUE DATE" NAME="DUE_DATE" />
<ATTRIBUTE LABEL="DUE DATE KEY" NAME="DUE_DATE_KEY" />
<ATTRIBUTE LABEL="TOTAL INVOICE AMOUNT" NAME="INVOICE_AMOUNT" />
```

FIG. 23G

2307

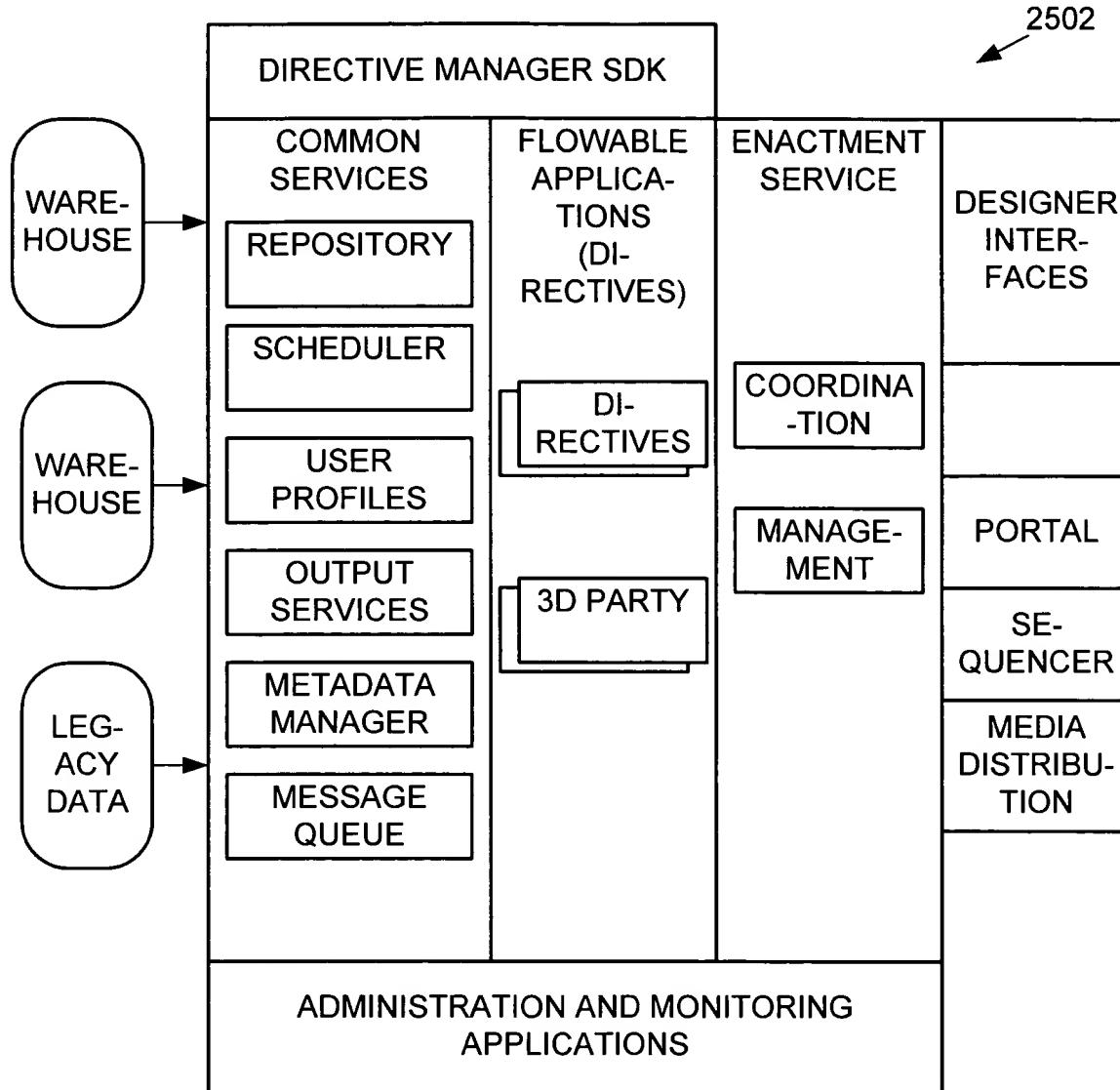
```
<ATTRIBUTE LABEL="INVOICE DATE" NAME="INVOICE_DATE" />
<ATTRIBUTE LABEL="INVOICE DATE KEY" NAME="INVOICE_DATE_KEY" />
<ATTRIBUTE LABEL="INVOICE DESCRIPTION" NAME="INVOICE_DESC" />
<ATTRIBUTE LABEL="INVOICE ID KEY" NAME="INVOICE_ID_KEY" />
<ATTRIBUTE LABEL="INVOICE LINE DESCRIPTION" NAME="INVOICE_LINE_DESC" />
<ATTRIBUTE LABEL="INVOICE LINE NUMBER" NAME="INVOICE_LINE_NUMBER" />
<ATTRIBUTE LABEL="INVOICE LINE TYPE" NAME="INVOICE_LINE_TYPE" />
<ATTRIBUTE LABEL="INVOICE NUMBER" NAME="INVOICE_NUMBER" />
<ATTRIBUTE LABEL="INVOICE TAX AMOUNT" NAME="INVOICE_TAX_AMOUNT" />
<ATTRIBUTE LABEL="ORGANIZATION KEY" NAME="ORGANIZATION_KEY" />
<ATTRIBUTE LABEL="PAID AMOUNT" NAME="PAID_AMOUNT" />
<ATTRIBUTE LABEL="PA PROJECT KEY" NAME="PA_PROJECT_KEY" />
<ATTRIBUTE LABEL="PA TASK KEY" NAME="PA_TASK_KEY" />
<ATTRIBUTE LABEL="PERIOD KEY" NAME="PERIOD_KEY" />
<ATTRIBUTE LABEL="POSTED FLAG" NAME="POSTED_FLAG" />
<ATTRIBUTE LABEL="PO CREATION DATE" NAME="PO_CREATED_DATE" />
<ATTRIBUTE LABEL="PO NUMBER" NAME="PO_NUMBER" />
<ATTRIBUTE LABEL="PRODUCT KEY" NAME="PRODUCT_KEY" />
<ATTRIBUTE LABEL="RECURRING INVOICE FLAG" NAME="RECURRING_INVOICE_FLAG" />
<ATTRIBUTE LABEL="SUB-ACCOUNT KEY" NAME="SUB_ACCOUNT_KEY" />
<ATTRIBUTE LABEL="TRANSLATED CURRENCY CODE"
NAME="TRANSLATED_CURRENCY_CODE" />
<ATTRIBUTE LABEL="VENDOR KEY" NAME="VENDOR_KEY" />
</DIMENSION>
</DP_DIMENSIONS>
-<MEASURES LABEL="AP INVOICE DETAILS" NAME="AP_INV_DETAIL_F">
<MEASURE LABEL="ACCOUNTING (PRE-AP) LAG DAYS"
NAME="ACCOUNTING_LAG_DAYS" />
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<MEASURE LABEL="INVOICE LINE EXCHANGE RATE VARIANCE"
NAME="INVOICE_LINE_EXCH_RATE_VAR" />
<MEASURE LABEL="INVOICE LINE PRICE VARIANCE"
NAME="INVOICE_LINE_PRICE_VARIANCE" />
<MEASURE LABEL="NUMBER OF INVOICE LINES" NAME="NUMBER_INVOICE_LINES" />
<MEASURE LABEL="TRANSLATED CURRENCY AMOUNT"
NAME="TRANSLATED_CURRENCY_AMOUNT" />
<MEASURE LABEL="UNPAID AMOUNT" NAME="UNPAID_AMOUNT" />
</MEASURES>
</DP_SCHEMA_DOC>
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FIG. 24



TOP SECRET//COMINT

FIG. 25



20150420-00090

FIG. 26

F06S0200-00752610

